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AIR SPARGING/SOIL VAPOR EXTRACTION TREATABILITY STUDY EVALUATION REPORT FOR JUNE 2002 THROUGH JANUARY 2003 FOR BOCA CHICA FLYING CLUB WITH TRANSMITTAL LETTER NAS KEY WEST FL

4/25/2003

TETRA TECH NUS

TETRA TECH NUS, INC.

AIK-03-0083

April 25, 2003

Project Number HK 4087 *via U.S. Mail*

Commander
Department of the Navy
SOUTHDIV NAVFACENGCOM
ATTN: Byas Glover (Code ES24)
P.O. Box 190010
North Charleston, South Carolina 29419-9010

Reference: CLEAN Contract No. N62467-94-D-0888
Contract Task Order No. 0207

Subject: AS/SVE Treatability Study Evaluation Report for Boca Chica Flying Club
June 2002 to January 2003, Rev. 0,
Naval Air Station, Key West, Florida

Dear Mr. Glover:

TtNUS is pleased to submit the enclosed PDF file for the AS/SVE Treatability Study Evaluation Report for Boca Chica Flying Club, June 2002 to January 2003, Rev. 0, Naval Air Station, Key West, Florida. At your request, a hard copy of this final report is being distributed to the Florida Department of Environmental Protection (FDEP) for their review and comment or concurrence. I am planning on receiving comments or concurrence on this document from FDEP within the next 30 days.

Please call me at (803) 649-7963, extension 345, if you have any questions regarding the enclosed CD.

Sincerely,

C. M. Bryan
Project Manager

CMB:spc

Enclosure

c: Ms. Debbie Wroblewski (Cover Letter Only)
Mr. R. Courtright, NAS Key West (CD/hard copy)
Ms. T. Vaught, FDEP (hard copy)
Mr. M. Perry/File
File 4087-7.3.2

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AS/SVE Treatability Study Evaluation Report

for

Boca Chica Flying Club
June 2002 to January 2003

Naval Air Station
Key West, Florida

Southern Division

Naval Facilities Engineering Command

Contract Number N62467-94-D-0888

Contract Task Order 0207

April 2003

Rev. 0
4/25/03

AS/SVE TREATABILITY STUDY EVALUATION REPORT
FOR
BOCA CHICA FLYING CLUB
JUNE 2002 TO JANUARY 2003

NAVAL AIR STATION
KEY WEST, FLORIDA

COMPREHENSIVE LONG-TERM
ENVIRONMENTAL ACTION NAVY (CLEAN) CONTRACT

Submitted to:
Southern Division
Naval Facilities Engineering Command
2155 Eagle Drive
North Charleston, South Carolina 29406

Submitted by:
Tetra Tech NUS, Inc.
661 Anderson Drive
Foster Plaza 7
Pittsburgh, Pennsylvania 15220

CONTRACT NUMBER N62467-94-D-0888
CONTRACT TASK ORDER 0207

APRIL 2003

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ACRONYMS/ABBREVIATIONS

ABB	ABB Environmental Services, Inc.
AS	Air Sparging
AST	Aboveground storage tank
ASTM	American Society for Testing and Materials
AS/SVE	Air Sparging/Soil Vapor Extraction
AVGAS	Aviation Gasoline
BEI	Bechtel Environmental, Inc.
BTEX	Benzene, toluene, ethylbenzene, and total xylenes
CAR	Contamination Assessment Report
cfm	Cubic feet per minute
CLEAN	Comprehensive Long-Term Environmental Action Navy
CTO	Contract Task Order
EPA	United States Environmental Protection Agency
FC	Flying Club
FDEP	Florida Department of Environmental Protection
GCTL	Groundwater cleanup target level
KAG	Kerosene Analytical Group
µg/L	Micrograms per liter
MW	Monitoring well
NAS	Naval Air Station
OVA	Organic Vapor Analyzer
ppbv	Parts per billion volume
ppm	Parts per million
PVC	Polyvinyl chloride
RAP	Remedial Action Plan
TOC	Top of Casing
TRPH	Total Recoverable Petroleum Hydrocarbons
TtNUS	Tetra Tech NUS, Inc.
UST	Underground storage tank
VES	Vapor Extraction System
VEW	Vapor extraction well
VOA	Volatile Organic Aromatic
VOC	Volatile Organic Compound

1.0 TREATABILITY STUDY REPORT

Tetra Tech NUS, Inc. (TtNUS) is pleased to submit the Air Sparging/Soil Vapor Extraction (AS/SVE) Treatability Study Evaluation Report. This report has been prepared for the United States Navy Southern Division Naval Facilities Engineering Command under Contract Task Order (CTO) 0207, under Comprehensive Long-Term Environmental Action Navy (CLEAN) Contract Number N62467-94-D-0888. This report presents operation and monitoring results from June 2002 through January 2003.

1.1 SITE HISTORY OVERVIEW

The former Flying Club (FC) area is located at Naval Air Station (NAS) Key West along the northwest boundary of Taxiway H of Boca Chica Field, near Buildings A-133, A-126, A-127, and A-128 (Figure 1-1). The former FC area includes a former motor pool refueling point that used underground storage tanks (USTs) to store and dispense gasoline. An aviation gasoline (AVGAS) aboveground storage tank (AST) area was located approximately 50 feet south of the former motor pool refueling area. The area is currently used as an electrical repair and maintenance facility (Building A-126) and a transformer storage area (Building A-133).

1.1.1 History of Assessment Activities

The AS/SVE system was installed to address subsurface soil and groundwater contaminated with volatile organic compounds (VOCs).

Soils in the site area were field-screened with an Organic Vapor Analyzer (OVA) to assess for the presence of contaminated soil during the Contamination Assessment Report (CAR) conducted in April 1994. A total of 71 soil borings were advanced, each to 6 feet deep. Screening results indicated the presence of excessively contaminated soils [greater than 50 parts per million (ppm)] in four areas. The largest of these areas measured approximately 70 feet long by 40 feet wide and was located near Building A131. Smaller areas were noted near the former AVGAS dispenser, north of Building A-131 near monitoring well (MW)-8, and north of Building A-131 near MW-17. OVA readings greater than 500 ppm were observed in 20 samples.

Groundwater samples were collected from all existing wells and analyzed for Kerosene Analytical Group (KAG) parameters during the CAR that was conducted in April 1994. The applicable Class G-III aquifer cleanup goals were exceeded for the compounds of benzene and total volatile organic aromatics (VOAs). Two areas of VOAs were identified, one near the former AVGAS ASTs and dispenser and the other near the former motor pool USTs. The highest total VOA concentration found, 1,300 micrograms per liter (µg/L), was at FC-MW-04, near the former AVGAS dispenser. Total VOA concentrations in samples from

FC-MW-06 and FC-MW-20, near the former motor pool gasoline USTs, were 305 µg/L and 156 µg/L, respectively.

The monitoring wells were resampled in August 1996, as part of the Remedial Action Plan (RAP) preparation. The 1996 data indicated significant changes in the degree and extent of contamination found during the CAR. Total VOAs in FC-MW-4 were measured at 133 µg/L, putting the area of the former AVGAS dispenser within the Class III guidelines. The total VOA concentrations for FC-MW-06 and FC-MW-20 were 1,470 µg/L and 35 µg/L, respectively. Based on the 1996 sampling results, the RAP recommended the excavation of contaminated soil (an estimated amount of 2,126 cubic yards). The largest area recommended for excavation was in the vicinity of the former motor pool USTs near Building A-133 [ABB Environmental Services, Inc. (ABB), 1997].

In 1998, excavations of contaminated soil took place, based on recommendations in the RAP. Approximately 983 cubic yards of soil were excavated from the FC site. The ion collide process was used to treat a portion of the contaminated soil. The excavated areas at the FC site were then backfilled [Bechtel Environmental, Inc. (BEI), 1999].

A quarterly groundwater monitoring plan was implemented in August 1999. The most recent sampling results are dated April 11, 2001. Total VOA concentrations for FC-MW-06 and FC-MW-20 were 51 µg/L and 11 µg/L, respectively. These VOA concentrations are below the applicable cleanup guidelines. However, naphthalene and total recoverable petroleum hydrocarbons (TRPH) concentrations increased in FC-MW-20. Due to the lack of substantial decreases in the concentrations of some contaminants following several quarters of groundwater monitoring, TtNUS recommended a treatability study be performed to investigate the efficacy of enhancing the degradation of contaminants under aerobic conditions.

1.2 MONITORING OBJECTIVES

In May 2002, an AS/SVE Treatability Study was initiated at the site to remediate residual hydrocarbon contaminants in the soil and groundwater (TtNUS, 2000). The study was conducted in two phases:

- Phase I involved a short-term test to evaluate the effectiveness of the system.
- Phase II involved a long-term evaluation of the Treatability Study and involves monitoring of the system's effectiveness for a period of six months.

The objective of Phase II was to remediate groundwater in the vicinity of FC-MW-06 and former FC-MW-20 (replaced by FC-MW-22 due to damage) to Florida Department of Environmental Protection (FDEP) groundwater cleanup target levels (GCTLs).

1.3 SYSTEM DESCRIPTION

The remediation system design incorporates soil vapor extraction with air sparging (AS) to remove hydrocarbon contaminants from the soil and groundwater. AS is achieved by a Roots URAI 33, 7.5-horsepower injection blower. Sixteen 2-inch-diameter AS wells were installed in a 20-foot grid pattern in the vicinity of monitoring wells FC-MW-06 and FC-MW-22. The screens were installed at an interval of 18 to 20 feet, to ensure a depth of approximately 12 feet below the top of water table. Air is transferred between the blower and injection wells by 2-inch-diameter above ground schedule 40 polyvinyl chloride (PVC) pipes. These pipes are connected to the blowers with 2-inch hoses equipped with quick-disconnect camlocks.

Vapor extraction for the soil remediation portion of the system is provided by a Rotron EN 707 5-horsepower blower capable of 70 inches of water at 120 cubic feet per minute (cfm). The vapor extraction wells (VEWs) were installed in close proximity to FCMW-06 and FC-MW-22. The screened interval was placed above and below the water table, which occurs between 5 and 6 feet. This allows for extracting vapors from the soil in the vadose zone. The VEWs were also attached to the blower via 2-inch PVC pipe. Prior to entering the blower, the moisture in the vapor stream is treated by a Rotron MS 500 moisture separator. The condensate is automatically transferred to a knock-out tank with a Zoellar 1/3-horsepower motor. The vapors then pass through a series of carbon treatment drums before being discharged into the atmosphere. A site map showing the system layout is presented in Figure 1-1.

1.4 AIR MONITORING

To monitor the effectiveness of the system, air/vapor samples were collected from the Vapor Extraction System (VES). The system was started on June 7, 2002 and a sample was collected to verify baseline results. Following startup, TtNUS personnel visited the site each month to collect air samples. Samples were collected from the sampling ports located before (influent) and after (effluent) the carbon canisters to evaluate the effectiveness of the carbon treatment. All sampling activities were conducted in accordance with the TtNUS Florida Regional Quality Assurance Program Manual (TtNUS, 2002a).

Following collection, the air samples were shipped via overnight transport to Air Toxics, Ltd. They were analyzed for VOCs, using United States Environmental Protection Agency (EPA) Method TO-14, and carbon dioxide and oxygen using American Society for Testing and Materials (ASTM) Method D-1946. The analytical results of the monthly air sampling are summarized in Table 1-1. Copies of the validation reports for the second quarter of monthly air monitoring are provided in Appendix A. The first quarter validation reports are contained in the AS/SVE Treatability Study Quarterly Report (TtNUS, 2002b).

Analytical results indicate that benzene, toluene, ethylbenzene, and total xylenes (BTEX) concentrations were detected in effluent air samples collected during June 2002, August 2002, and December 2002

events. Total BTEX effluent concentrations were 27.5, 3.10, and 1.3 parts per billion volume (ppbv) for the samples collected in June, August, and December 2002. Effluent concentrations were below detection limits in the July, September, October, and November 2002, and January 2003. Total BTEX concentrations for influent samples collected in June, July, and August 2002, were 4,670 ppbv, 9.7 ppbv, and 2.2 ppbv, respectively. Influent concentrations were not detected during any other sampling event. The total emissions for the quarter did not exceed the 13.7 pounds-per-day FDEP limit. Mass vapor emissions calculations for the highest effluent concentrations are presented in Table 1-2.

1.5 GROUNDWATER MONITORING

On September 17, 2002 and January 31, 2003, TtNUS personnel collected groundwater samples from three monitoring wells: FC-MW-05, FC-MW-06 and FC-MW-22. All sample activities were conducted in accordance with the TtNUS Florida Regional Quality Assurance Program Manual (TtNUS, 2002).

Immediately prior to the collection of the groundwater samples, water levels were recorded from each site monitoring well. The water level data was used to determine purge volumes. In addition, depth-to-water measurements, along with top-of-casing elevations, were used to calculate groundwater elevations. Based on these elevations, the groundwater was flowing primarily to the south-southeast at the time of the September sampling and to the southeast in January 2003. Figure 1-2 depicts the groundwater elevations recorded on September 17, 2002. Figure 1-3 depicts the groundwater elevations recorded on January 31, 2003. Depth-to-water measurements, top-of-casing elevations, and groundwater elevation data are provided in Table 1-3.

All monitoring wells were purged prior to collection of the groundwater samples. Purging and sampling were performed with a peristaltic pump using the low-flow quiescent method. Water sampling logs for January 2003, which detail the purge process, are provided in Appendix B. September 2002 groundwater sampling logs are contained in the AS/SVE Treatability Study Quarterly Report (TtNUS, 2002b).

Following collection of the groundwater samples, the sample bottles were packed on ice and shipped via overnight transport to Katahdin Analytical Services in Westbrook, Maine. The groundwater samples were analyzed for compounds in the KAG. The analytical results are summarized in Tables 1-4 and 1-5 and presented on Figure 1-4.

During the first quarter event in September 2002, benzene, naphthalene, lead, and TRPH concentrations were detected in monitoring well FC-MW-06 at concentrations of 0.4 µg/L, 0.1 µg/L, 36.8 µg/L, and 150 µg/L, respectively. Lead was the only KAG constituent to exceed the GCTL in this monitoring well.

Ethylbenzene, total xylenes, naphthalene, and TRPH concentrations were detected in FC-MW-22 at concentrations of 95 µg/L, 12 µg/L, 360 µg/L, and 4,300 µg/L, respectively, during the first quarter monitoring event. Ethylbenzene and naphthalene concentrations were above the GCTL of 20 µg/L

recommended for the site. In addition to the above constituents, 1-methylnaphthalene and 2-methylnaphthalene were also detected above GCTLs in monitoring well FC-MW-22 during the first quarter event.

Constituents of the KAG were not detected in the sample collected from FC-MW-05.

During the second quarterly monitoring event conducted in January 2003, lead again exceeded the GCTL at a concentration of 40.2 µg/L, but in monitoring well FC-MW-22. Ethylbenzene, 1-methylnaphthalene, 2-methylnaphthalene, naphthalene, and TRPH also exceed their GCTLs at concentrations of 88, 46, 180, 630, and 8,200 µg/L, respectively, in monitoring well FC-MW-22. Contaminants did not exceed GCTLs in monitoring wells FC-MW-05 or FC-MW-06. However, VOCs were detected in all monitoring wells sampled at the site.

Figure 1-4 presents first and second quarter groundwater monitoring results compared to sample results from April 2001. Monitoring well FC-MW-05 was not sampled prior to implementation of the AS/SVE system. BTEX, TRPH, and lead concentrations in monitoring well FC-MW-22 have increased compared to the April 2001 event. However, BTEX, TRPH, naphthalene, and lead concentrations in FC-MW-06 have decreased since the April 2001 event and are currently below GCTLs.

1.6 AS/SVE SYSTEM OPERATIONS

The remedial system has operated effectively from June 2002 through January 2003. TtNUS performed routine operation and maintenance during monthly site visits. The system operated as designed during the eight-month period, with the exception of a one week period when the system was down for equipment repair. The trailer containing the AS/SVE system was removed in February 2003 after completion of the treatability study.

1.7 CONCLUSIONS AND RECOMMENDATIONS

Ethylbenzene, lead, naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene were detected in the groundwater above GCTLs during both quarterly events. TRPH was also detected above its GCTL during the second quarter event.

Overall KAG contamination in the previously defined source area monitoring well (FC-MW-06) has decreased since implementation of the AS/SVE system. However, FC-MW-22 has shown an increase in KAG constituents, suggesting that contamination at the site has mobilized to the east toward Taxiway H, as shown in Figure 1-4.

TtNUS recommends that one year of quarterly monitoring at the Flying Club be performed to further assess groundwater contamination, potential increases in BTEX concentrations (rebound), and possible

contaminant plume movement. Additional remediation may be considered for this site if contaminant concentrations have not decreased to below GCTLs.

TABLE 1-1

VES ANALYTICAL AND PERFORMANCE SUMMARY
AS/SVE TREATABILITY STUDY QUARTERLY REPORT
BOCA CHICA FLYING CLUB, BUILDING A-127
NAVAL AIR STATION
KEY WEST, FLORIDA

Location	Sample ID	Date	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Total BTEX	Oxygen (%)	Carbon Dioxide (%)
EFFLUENT	BCFC-VEFF-01	6/7/2002		7.4	3.7	16.4	27.5	20.0	0.04
INFLUENT	BCFC-VINF-01	6/7/2002			4100.0	570.0	4670.0	20.0	0.170
EFFLUENT	BCFC-VEFF-0702	7/11/2002					0.0	22.0	0.07
INFLUENT	BCFC-VINF-0702	7/11/2002			9.7		9.7	22.0	0.065
EFFLUENT	BCFC-VEFF-0802	8/20/2002		3.1			3.1	20.0	0.039
INFLUENT	BCFC-VINF-0802	8/20/2002	2.2				2.2	20.0	0.068
EFFLUENT	BCFC-VEFF-0902	9/17/2002					0.0	21.0	0.094
INFLUENT	BCFC-VINF-0902	9/17/2002					0.0	20.0	0.180
EFFLUENT	BCFC-VEFF-1002	10/25/2002					0.0	21.0	0.066
INFLUENT	BCFC-VINF-1002	10/25/2002					0.0	21.0	0.076
EFFLUENT	BCFC-VEFF-1102	11/21/2002					0.0	16.0	ND
INFLUENT	BCFC-VINF-1102	11/22/2002					0.0	18.0	ND
EFFLUENT	BCFC-VEFF-1202	12/16/2002		1.3			1.3	18.0	0.04
INFLUENT	BCFC-VINF-1202	12/16/2002			1.1		1.1	19.0	0.054
EFFLUENT	BCFC-VEFF-0103	1/30/2003					0.0	22.0	0.045

All results are reported in parts per billion volume (ppbv) unless noted.
ND – Not Detected

TABLE 1-2

**MASS VAPOR EMISSIONS CALCULATIONS (JUNE 7, 2002)
AS/SVE TREATABILITY STUDY QUARTERLY REPORT
BOCA CHICA FLYING CLUB SITE, BUILDING A-127
NAVAL AIR STATION
KEY WEST, FLORIDA**

Parameter	Effluent Result ($\mu g/m^3$)*
Benzene	0
Toluene	7
Ethylbenzene	4
Total Xylenes	16
MTBE	0
TRPH	0
$\mu g/m^3$ of total (detectable) VOCs>>>	27.0
$\mu g/ft^3$ of total (detectable) VOCs>>>	0.76
ft^3/min. (cfm) out of the carbon >>>	52
μg/min out of the carbon >>>	40
minutes per day (24 hrs.)	1440
μg/day >>>	5.72E+04
pounds/day	1.26E-04
pounds/month based on 30 days>>>	3.7E-03

* Only detectable results are used in calculations

μg = micrograms
m^3 = cubic meters
ft^3 = cubic feet
cfm = cubic feet per minute
MTBE = methyl-tertiary butyl ether
TRPH = total recoverable petroleum hydrocarbons

TABLE 1-3

**TOTAL DEPTHS, TOP OF CASING ELEVATIONS, AND WATER TABLE ELEVATIONS
AS/SVE TREATABILITY STUDY QUARTERLY REPORT
BOCA CHICA FLYING CLUB SITE, BUILDING A-127
NAVAL AIR STATION
KEY WEST, FLORIDA**

Well ID	Date	Total Depth (ft)	Top of Casing Elevation (ft)	Depth-to-water (ft below TOC)	Groundwater Elevation (ft)
FC-MW-05	9/17/2002	11.8	5.78	4.03	1.75
FC-MW-06	9/17/2002	14.1	4.86	3.04	1.82
FC-MW-22	9/17/2002	15	5.07	3.33	1.74
FC-MW-05	1/31/2003	11.62	5.78	4.65	1.13
FC-MW-06	1/31/2003	12.6	4.86	3.70	1.16
FC-MW-22	1/31/2003	14.67	5.07	4.03	1.04

Top of Casing (TOC) Elevations were surveyed by Donaldson, Garrett, and Associates in September 2002. Vertical datum is National Geodetic Vertical Datum of 1929 (NGVD 29).

TABLE 1-4

**FIRST QUARTER GROUNDWATER ANALYTICAL RESULTS
AS/SVE TREATABILITY STUDY QUARTERLY REPORT
BOCA CHICA FLYING CLUB SITE, BUILDING A-127
NAVAL AIR STATION
KEY WEST, FLORIDA**

LOCATION	PARAMETER	RESULT (µg/L)	QUAL.[a]	GCTL[b] (µg/L)
LEAD				
FC-MW-06	LEAD	36.8		15
VOLATILE ORGANIC COMPOUNDS				
FC-MW-06	BENZENE	0.4	J	1
FC-MW-22	ETHYLBENZENE	95		30
FC-MW-22	TOTAL XYLENES	12		20
POLYNUCLEAR AROMATIC HYDROCARBONS				
FC-MW-22	1-METHYLNAPHTHALENE	47		20
FC-MW-22	2-METHYLNAPHTHALENE	100		20
FC-MW-22	ACENAPHTHENE	0.1	J	20
FC-MW-06	NAPHTHALENE	0.1	J	20
FC-MW-22	NAPHTHALENE	360		
FC-MW-22	PHENANTHRENE	0.08	J	210
TOTAL RECOVERABLE PETROLEUM HYDROCARBONS				
FC-MW-06	TOTAL PETROLEUM HYDROCARBONS	150	J	5,000
FC-MW-22	TOTAL PETROLEUM HYDROCARBONS	4,300		

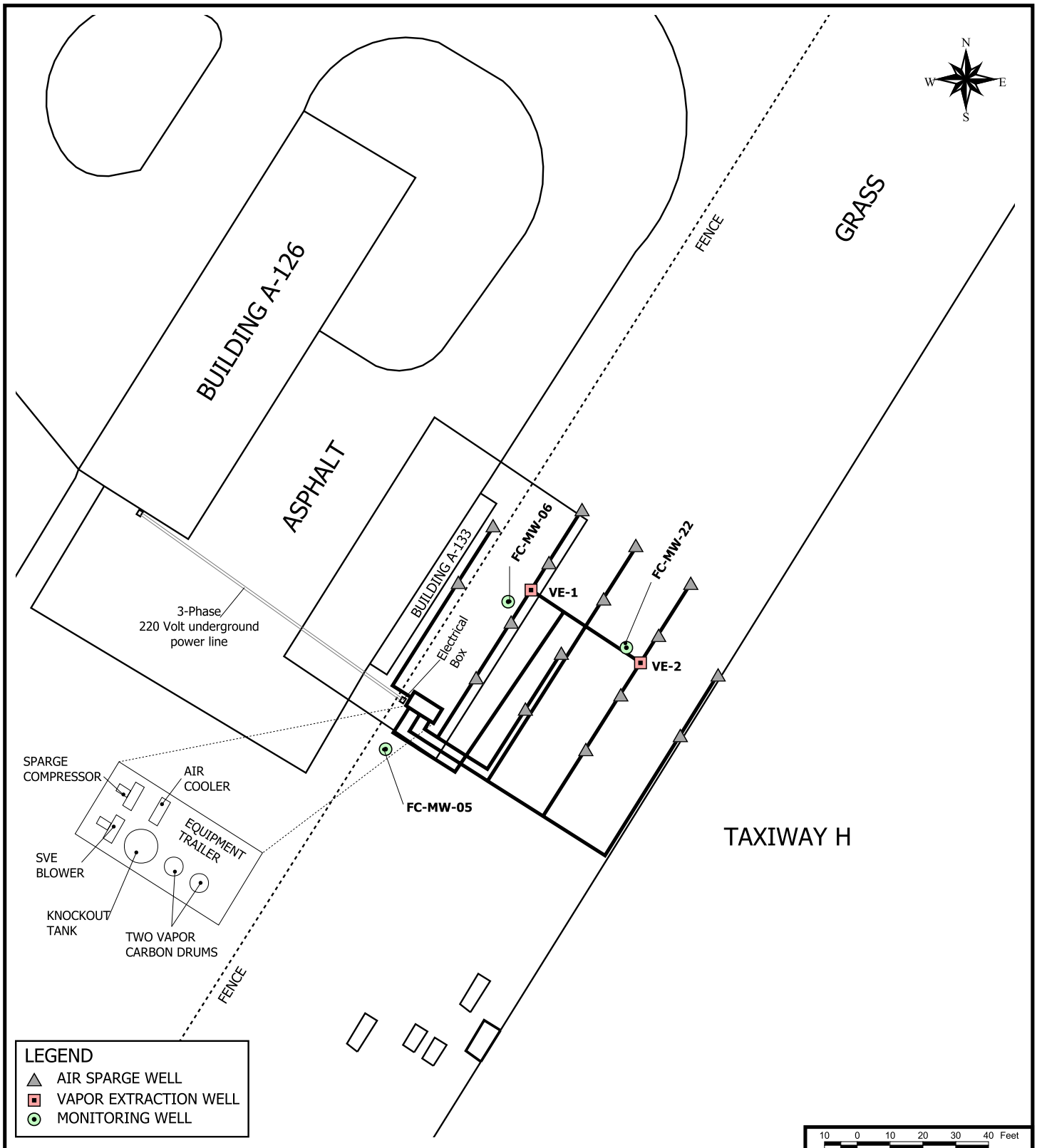
Shading indicates a concentration in excess of the action level.
(a) Qualifier (Qual.) Codes:
J – The associated value is an estimated quantity.
(b) Groundwater Cleanup Target Level (GCTL) as listed in F.A.C. 62-777 Table I.

TABLE 1-5

**SECOND QUARTER GROUNDWATER ANALYTICAL RESULTS
AS/SVE TREATABILITY STUDY QUARTERLY REPORT
BOCA CHICA FLYING CLUB SITE, BUILDING A-127
NAVAL AIR STATION
KEY WEST, FLORIDA**

LOCATION	PARAMETER	RESULT (µg/L)	QUAL.[a]	GCTL[b] (µg/L)
LEAD				
FC-MW-22	LEAD	40.2		15
VOLATILE ORGANIC COMPOUNDS				
FC-MW-05	ETHYLBENZENE	1		30
FC-MW-06	ETHYLBENZENE	1		
FC-MW-22	ETHYLBENZENE	88		
FC-MW-05	TOLUENE	1		4
FC-MW-22	TOLUENE	4		
FC-MW-05	TOTAL XYLENES	5		20
FC-MW-06	TOTAL XYLENES	5		20
FC-MW-22	TOTAL XYLENES	19		20
FC-MW-05	TRICHLOROETHENE	1	J	3
POLYNUCLEAR AROMATIC HYDROCARBONS				
FC-MW-22	1-METHYLNAPHTHALENE	46	J	20
FC-MW-22	2-METHYLNAPHTHALENE	180		20
FC-MW-22	NAPHTHALENE	630		20
TOTAL RECOVERABLE PETROLEUM HYDROCARBONS				
FC-MW-22	TOTAL PETROLEUM HYDROCARBONS	8,200		5,000

Shading indicates a concentration in excess of the action level.
(a) Qualifier (Qual.) Codes:
J – The associated value is an estimated quantity.
(b) Groundwater Cleanup Target Level (GCTL) as listed in F.A.C. 62-777 Table I.



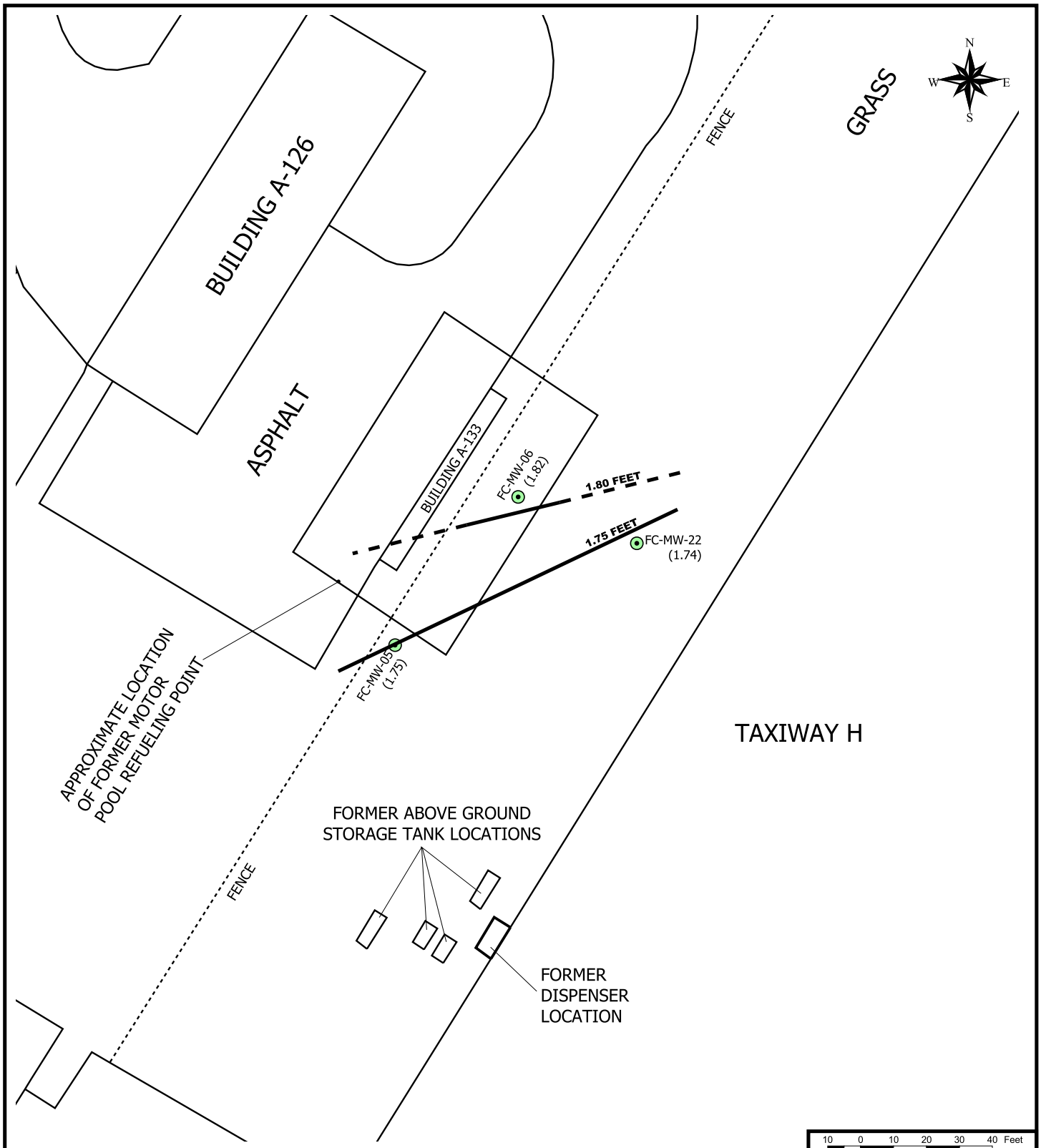
NO.	DATE	REVISIONS

DRAWN BY MB	DATE 04/24/2003
CHECKED BY EJH	DATE 04/24/2003
COST/SCHED-AREA	
SCALE	AS NOTED

AS/SVE TREATABILITY STUDY
EVALUATION REPORT
SITE MAP AND SYSTEM LAYOUT
FLYING CLUB SITE, BLDG. A-127
NAVAL AIR STATION
KEY WEST, FLORIDA

CONTRACT NO. 4087	
APPROVED BY CMB	DATE 04/24/2003
APPROVED BY	DATE
DRAWING NO. FIGURE 1-1	REV. 0

P:\GOVERNMENT\KEY WEST \EGIS\FLYINGCLUB_AS-SVE_EVALUATION_REPORT.APR 04/24/2003 BY: MB LAYOUT: TREATMENT SYSTEM



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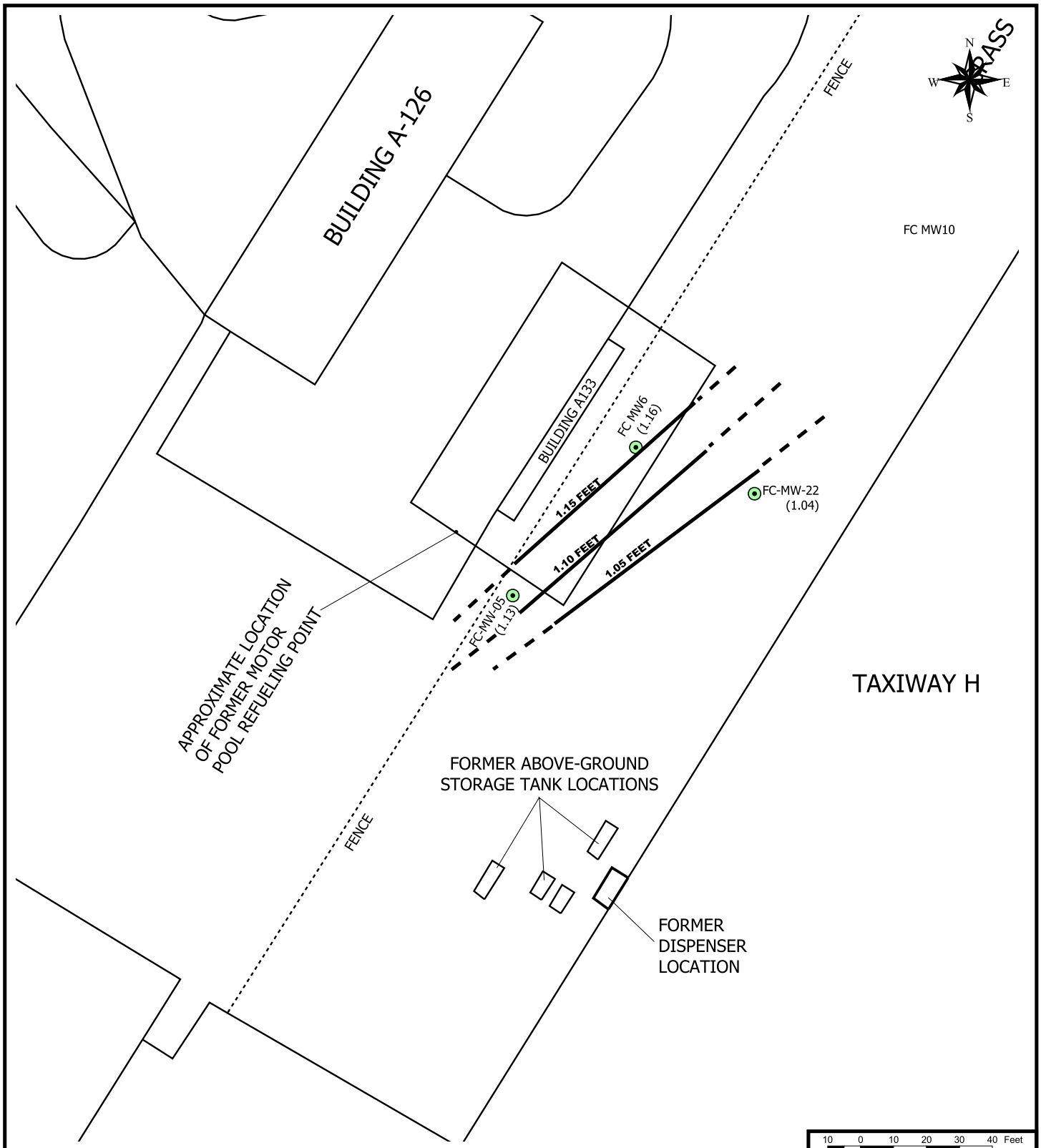
CHECKED BY EJH	DATE 04/24/2003
COST/SCHED-AREA	
SCALE	AS NOTED

AS/SVE TREATABILITY STUDY
EVALUATION REPORT
FIRST QUARTER GROUNDWATER
ELEVATION MAP SEPT 17, 2002
FLYING CLUB SITE, BLDG. A-127
NAVAL AIR STATION
KEY WEST, FLORIDA

CONTRACT NO. 4087	
APPROVED BY CMB	DATE 04/24/2003
APPROVED BY	DATE
DRAWING NO. FIGURE 1-2	REV. 0

P:\GOVERNMENT\KEY WEST \EGIS\FLYINGCLUB_AS-SVE_EVALUATION_REPORT.APR 04/24/2003 BY: MB LAYOUT: 1Q GROUNDWATER ELEVATION CONTOUR MAP



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DRAWN BY MB	DATE 04/24/2003
CHECKED BY EJH	DATE 04/24/2003
COST/SCHED-AREA	
SCALE AS NOTED	

AS/SVE TREATABILITY STUDY
EVALUATION REPORT
SECOND QUARTER GROUNDWATER
ELEVATION MAP JAN 31, 2003
FLYING CLUB SITE, BLDG. A-127
NAVAL AIR STATION
KEY WEST, FLORIDA

CONTRACT NO. 4087	
APPROVED BY CMB	DATE 04/24/2003
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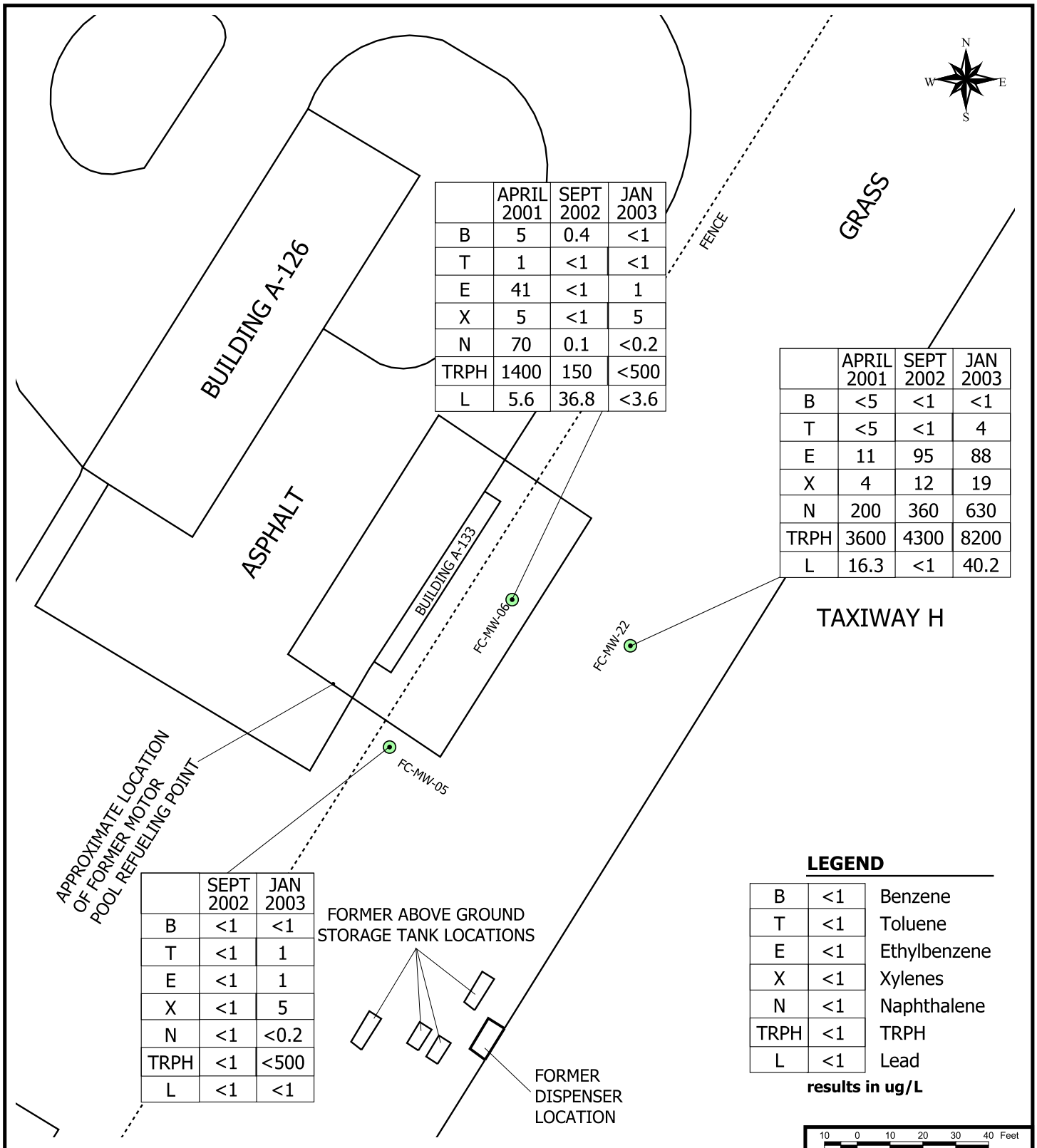
DRAWING NO. FIGURE 1-3	REV. 0

P:\GOVERNMENT\KEY WEST \EGIS\FLYINGCLUB_AS-SVE_EVALUATION_REPORT.APR 04/24/2003 BY: MB LAYOUT: 2Q GROUNDWATER ELEVATION CONTOUR MAP



	APRIL 2001	SEPT 2002	JAN 2003
B	5	0.4	<1
T	1	<1	<1
E	41	<1	1
X	5	<1	5
N	70	0.1	<0.2
TRPH	1400	150	<500
L	5.6	36.8	<3.6

	APRIL 2001	SEPT 2002	JAN 2003
B	<5	<1	<1
T	<5	<1	4
E	11	95	88
X	4	12	19
N	200	360	630
TRPH	3600	4300	8200
L	16.3	<1	40.2

	SEPT 2002	JAN 2003
B	<1	<1
T	<1	1
E	<1	1
X	<1	5
N	<1	<0.2
TRPH	<1	<500
L	<1	<1

LEGEND

B	<1	Benzene
T	<1	Toluene
E	<1	Ethylbenzene
X	<1	Xylenes
N	<1	Naphthalene
TRPH	<1	TRPH
L	<1	Lead

results in ug/L

10 0 10 20 30 40 Feet

NO.	DATE	REVISIONS

DRAWN BY CM DATE 04/24/2003
CHECKED BY GB DATE 04/24/2003
COST/SCHED-AREA
SCALE AS NOTED

AS/SVE TREATABILITY STUDY
EVALUATION REPORT
GROUNDWATER
ANALYTICAL RESULTS
FLYING CLUB SITE, BLDG. A-127
NAVAL AIR STATION
KEY WEST, FLORIDA

CONTRACT NO. 4087
APPROVED BY CMB DATE 04/24/2003
APPROVED BY ____ DATE ____
DRAWING NO. FIGURE 1-4
REV. 0

P:\GOVERNMENT\KEY WEST \EGIS\FLYINGCLUB_AS-SVE_QUARTERLY_REPORT.APR 11/26/2002 BY: CEM LAYOUT: CONTAMINANT CONCETRATION

REFERENCES

ABB (ABB Environmental Services, Inc.), 1997. Remedial Action Plan, Flying Club Site (UST Site 9), Naval Air Station, Key West, Florida, prepared for Southern Division Naval Facilities Engineering Command (SOUTHNAVFACENGCOM), Charleston, South Carolina, August.

BEI (Bechtel Environmental, Inc.), 1999. Project Completion Report for Delivery Order No. 0094, Flying Club Site, Petroleum Remediation at Naval Air Station, Key West, Florida, prepared for Department of the Navy, Southern Division, Naval Facilities Engineering Command, Oak Ridge, Tennessee, January.

FDEP (Florida Department of Environmental Protection), 2000. Re: Annual Groundwater Monitoring Report for Flying Club Site, Key West, Florida, August 9.

TtNUS (Tetra Tech NUS, Inc.), 2000. Annual Groundwater Monitoring Plan Report for Flying Club UST Site 9, Naval Air Station, Key West, Florida, prepared for Southern Division Naval Facilities Engineering Command (SOUTHNAVFACENGCOM), Charleston, South Carolina, July.

TtNUS (Tetra Tech NUS, Inc.), 2002a. Florida Regional Quality Assurance Program Manual. Tallahassee, Florida, October.

TtNUS (Tetra Tech NUS, Inc.), 2002b. AS/SVE Treatability Study Quarterly Report for Boca Chica Flying Club, July to September 2002, Naval Air Facility, Key West, Florida, prepared for Southern Division Naval Facilities Engineering Command (SOUTHNAVFACENGCOM), Aiken, South Carolina, December.

APPENDIX A

LABORATORY REPORTS

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **C. BRYAN** **DATE:** **MARCH 17, 2003**

FROM: **ETHAN G. LEE** **COPIES:** **DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION – TAL METALS, TIN, AND MISCELLANEOUS PARAMETERS**
NAS KEY WEST – CTO 233
SAMPLE DELIVERY GROUP (SDG) – 2334

SAMPLES: 19/AQUEOUS/

0103-DUP-01	FC-MW-05-0103	FC-MW-06-0103
FC-MW-20R-0103	I8MW8-1-0103	I8MW8-2-0103
S1MW-7-0103	S1SW-1-0103	S1SW-2-0103
S1SW-3-0103	0103-DUP-06	S9MW-12-0103
S9MW-14-0103	S9MW-15-0103	S9MW-21-0103
S9MW-22-0103	S9MW-24-0103	S9MW-25-0103
S9MW-5-0103		

Overview

The sample set for NAS Key West, CTO 233, SDG 2334, consists of nineteen (19) aqueous environmental samples. Two (2) field duplicate pairs (0103-DUP-01 / S1MW-7-0103; 0103-DUP-06 / S9MW-14-0103) are included in this SDG.

Samples 0103-DUP-01, I8MW8-1-0103, I8MW8-2-0103, S1MW-7-0103, S1SW-1-0103, S1SW-2-0103, and S1SW-3-0103 were analyzed for Target Analyte List (TAL) metals and tin. Samples FC-MW-05-0103, FC-MW-06-0103, and FC-MW-20R-0103 were analyzed for lead only. Samples 0103-DUP-06, S9MW-12-0103, S9MW-14-0103, S9MW-15-0103, S9MW-21-0103, S9MW-22-0103, S9MW-24-0103, S9MW-25-0103, and S9MW-5-0103 were analyzed for chloride, sulfate, sulfide, and total organic carbon (TOC). The samples were collected by Tetra Tech NUS January 31 to February 3, 2003, and analyzed by Katahdin Analytical Services. Tin and TAL metals analyses except mercury were conducted using method SW846 6010B. Mercury analyses were conducted using method SW846 7470A. Chloride and sulfate analyses were conducted using method EPA 300. Sulfide analyses were conducted using method EPA 376.1. TOC analyses were conducted using method EPA 415.1.

Metals analyses except mercury were conducted using Inductively Coupled Plasma (ICP) methodologies. Mercury analyses were conducted using Cold Vapor Atomic Absorption (CVAA) methodologies.

These data were evaluated based on the following parameters:

* • Data Completeness
* • Holding Times
* • Calibration Recoveries
• Laboratory Blank Analyses
* • Field Duplicate Results

- Detection Limits

* - All quality control criteria were met for this parameter.

Laboratory Blank Analyses

The following contaminants were detected in the laboratory method/preparation blanks at the following maximum concentrations:

Analyte	Maximum Concentration	Action Level
Aluminum[1]	22.85 ug/L	114.25 ug/L
Antimony[2]	1.55 ug/L	7.75 ug/L
Calcium[1]	21.91 ug/L	109.55 ug/L
Calcium	20.04 ug/L	100.2 ug/L
Chromium[2]	0.67 ug/L	3.35 ug/L
Iron	10.17 ug/L	50.85 ug/L
Lead[2]	1.35 ug/L	6.75 ug/L
Mercury	0.10 ug/L	0.50 ug/L
Nickel[1]	10.56 ug/L	52.8 ug/L
Potassium	544.18 ug/L	2720.9 ug/L
Silver	2.70 ug/L	13.5 ug/L
Sodium[1]	82.43 ug/L	412.15 ug/L
Sodium[2]	144.07 ug/L	720.35 ug/L
Zinc	1.41 ug/L	7.05 ug/L
Chloride[3]	0.209 mg/L	1.045 mg/L
TOC[3]	0.3636 mg/L	1.818 mg/L

[1] Maximum concentration present in preparation blank from batchTB07ICW0.
[2] Maximum concentration present in preparation blank from batch TB05ICW1.
[3] Maximum concentration present in aqueous preparation blank.

An action level of 5X the maximum concentration was used to evaluate the sample data for blank contamination. Sample aliquot and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. Positive results less than the action level for aluminum, antimony, chromium, iron, lead, mercury, and zinc were qualified as nondetected (U) as a result of blank contamination. No validation action was required for the remaining analytes because all the results were either greater than the action level or they were nondetects.

Detection Limits

The result for sulfide in sample S9MW-5-0103 was below the laboratory's practical quantitation limit (PQL) but above the measured detection limit (MDL). The positive result reported for sulfide in this sample was qualified as estimated (J) due to uncertainty near the detection limit.

Notes

Dilutions were performed for all metal analytes except mercury in sample I8MW8-1-0103 due to the concentrations of magnesium and sodium above the linear range of the instrument and due to matrix interference for the remaining analytes.

Dilutions were performed for all metal analytes except mercury in samples 0103-DUP-01, I8MW8-2-0103, S1MW-7-0103, and S1SW-3-0103 due to the concentrations of calcium, magnesium, and sodium above the linear range of the instrument and due to matrix interference for the remaining analytes.

Dilutions were performed for all metal analytes except mercury in samples S1SW-1-0103 and S1SW-2-0103 due to the concentrations of calcium, magnesium, potassium, and sodium above the linear range of the instrument and due to matrix interference for the remaining analytes.

Executive Summary

Laboratory Performance: Several analytes were present in the laboratory method/preparation blanks.

Other Factors Affecting Data Quality: Sulfide in sample S9MW-5-0103 was qualified due to uncertainty near the detection limit.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Review", July 2002 and the NFESC document entitled "Navy IRCDQM" (September 1999).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS
Ethan G. Lee
Environmental Scientist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration (i.e., % RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
D = MS/MSD Noncompliance
E = LCS/LCSD Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - include ICSAB % R's
L = Instrument Calibration Range Exceedance
M = Sample Preservation
N = Internal Standard Noncompliance
N01 = Internal Standard Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = Pest/PCD% between columns for positive results
V = Non-linear calibrations, tuning $r < 0.995$ (correlation coefficient)
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity

PROJ_NO: 4202

SDG: 2334 MEDIA: WATER DATA FRACTION: M

nsample	0103-DUP-01
samp_date	1/31/2003
lab_id	WT0233-007
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	S1MW-7-0103

Parameter	Result	Val Qual	Qual Code
ALUMINUM	96.3	U	
ANTIMONY	3.6	U	
ARSENIC	8.2		
BARIUM	26.2		
BERYLLIUM	1.6	U	
CADMIUM	13.0	U	
CALCIUM	582000		
CHROMIUM	2.2	U	A
COBALT	1.7	U	
COPPER	11.9	U	
IRON	156	U	A
LEAD	2.6	U	
MAGNESIUM	1110000		
MANGANESE	2.9	U	
MERCURY	0.10	U	A
NICKEL	50.9	U	
POTASSIUM	347000		
SELENIUM	6.4	U	
SILVER	12.3	U	
SODIUM	8200000		
THALLIUM	8.6	U	
TIN	6.0	U	
VANADIUM	25.9	U	
ZINC	6.1	U	

nsample	FC-MW-05-0103
samp_date	1/31/2003
lab_id	WT0233-003
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	1.0	U	A

nsample	FC-MW-06-0103
samp_date	1/31/2003
lab_id	WT0233-001
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	3.6	U	A

PROJ_NO: 4202

SDG: 2334 MEDIA: WATER DATA FRACTION: M

nsample	FC-MW-20R-0103
samp_date	1/31/2003
lab_id	WT0233-002
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	40.2		

nsample	I8MW8-1-0103
samp_date	1/31/2003
lab_id	WT0233-004
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ALUMINUM	96.3	U	
ANTIMONY	3.6	U	
ARSENIC	5.5		
BARIUM	110		
BERYLLIUM	1.6	U	
CADMIUM	13.0	U	
CALCIUM	238000		
CHROMIUM	1.8	U	A
COBALT	1.7	U	
COPPER	11.9	U	
IRON	23.7	U	
LEAD	2.6	U	
MAGNESIUM	1020000		
MANGANESE	20.2		
MERCURY	0.09	U	A
NICKEL	50.9	U	
POTASSIUM	355000		
SELENIUM	6.4	U	
SILVER	12.3	U	
SODIUM	8320000		
THALLIUM	8.6	U	
TIN	6.0	U	
VANADIUM	25.9	U	
ZINC	6.1	U	

nsample	I8MW8-2-0103
samp_date	1/31/2003
lab_id	WT0233-005
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ALUMINUM	124		
ANTIMONY	17.2	U	A
ARSENIC	53.1		
BARIUM	90.7		
BERYLLIUM	1.6	U	
CADMIUM	13.0	U	
CALCIUM	514000		
CHROMIUM	7.1	U	A
COBALT	1.7	U	
COPPER	11.9	U	
IRON	159	U	A
LEAD	2.6	U	
MAGNESIUM	1400000		
MANGANESE	2.9	U	
MERCURY	0.09	U	A
NICKEL	50.9	U	
POTASSIUM	462000		
SELENIUM	6.4	U	
SILVER	12.3	U	
SODIUM	11200000		
THALLIUM	8.6	U	
TIN	6.0	U	
VANADIUM	30.2		
ZINC	11.7	U	A

PROJ_NO: 4202

SDG: 2334 MEDIA: WATER DATA FRACTION: M

nsample	S1MW-7-0103		nsample	S1SW-1-0103		nsample	S1SW-2-0103	
samp_date	1/31/2003		samp_date	2/1/2003		samp_date	2/1/2003	
lab_id	WT0233-006		lab_id	WT0246-010		lab_id	WT0246-011	
qc_type	NM		qc_type	NM		qc_type	NM	
units	UG/L		units	UG/L		units	UG/L	
Pct_Solids	0		Pct_Solids	0		Pct_Solids	0	
DUP_OF:			DUP_OF:			DUP_OF:		
Parameter	Result	Val Qual	Qual Code	Parameter	Result	Val Qual	Qual Code	Parameter	Result	Val Qual	Qual Code
ALUMINUM	96.3	U		ALUMINUM	132	U	A	ALUMINUM	96.3	U	
ANTIMONY	4.0	U	A	ANTIMONY	13.9			ANTIMONY	3.6	U	
ARSENIC	11.6			ARSENIC	7.8	U		ARSENIC	4.7	U	
BARIUM	23.4			BARIUM	123			BARIUM	17.3		
BERYLLIUM	1.6	U		BERYLLIUM	0.96	U		BERYLLIUM	1.6	U	
CADMIUM	13.0	U		CADMIUM	7.8	U		CADMIUM	13.0	U	
CALCIUM	576000			CALCIUM	1250000			CALCIUM	559000		
CHROMIUM	2.3	U	A	CHROMIUM	41.4			CHROMIUM	1.3	U	
COBALT	1.7	U		COBALT	2.8	U		COBALT	1.7	U	
COPPER	11.9	U		COPPER	16.6			COPPER	11.9	U	
IRON	111	U	A	IRON	31.2	U	A	IRON	183	U	A
LEAD	2.6	U		LEAD	4.4	U		LEAD	2.6	U	
MAGNESIUM	1100000			MAGNESIUM	1540000			MAGNESIUM	1670000		
MANGANESE	2.9	U		MANGANESE	5.8	U		MANGANESE	2.9	U	
MERCURY	0.09	U	A	MERCURY	0.83			MERCURY	0.08	U	A
NICKEL	50.9	U		NICKEL	30.5	U		NICKEL	50.9	U	
POTASSIUM	348000			POTASSIUM	679000			POTASSIUM	526000		
SELENIUM	6.4	U		SELENIUM	10.6	U		SELENIUM	6.4	U	
SILVER	12.3	U		SILVER	7.4	U		SILVER	12.3	U	
SODIUM	8410000			SODIUM	15200000			SODIUM	13400000		
THALLIUM	8.6	U		THALLIUM	14.3	U		THALLIUM	8.6	U	
TIN	6.0	U		TIN	10.0	U		TIN	6.0	U	
VANADIUM	25.9	U		VANADIUM	28.4			VANADIUM	25.9	U	
ZINC	11.0	U	A	ZINC	7.1	U	A	ZINC	51.2		

PROJ_NO: 4202

SDG: 2334 MEDIA: WATER DATA FRACTION: M

nsample	S1SW-3-0103
samp_date	2/1/2003
lab_id	WT0246-012
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ALUMINUM	281	U	A
ANTIMONY	5.4		
ARSENIC	4.7	U	
BARIUM	52.6		
BERYLLIUM	0.96	U	
CADMIUM	17.6		
CALCIUM	606000		
CHROMIUM	62.4		
COBALT	1.7	U	
COPPER	28.9		
IRON	412		
LEAD	320		
MAGNESIUM	1380000		
MANGANESE	127		
MERCURY	0.40	U	A
NICKEL	30.5	U	
POTASSIUM	453000		
SELENIUM	6.4	U	
SILVER	7.4	U	
SODIUM	10300000		
THALLIUM	8.6	U	
TIN	6.0	U	
VANADIUM	15.5	U	
ZINC	120		

PROJ_NO: 4202

SDG: 2334 MEDIA: WATER DATA FRACTION: M

nsample	0103-DUP-06
samp_date	2/1/2003
lab_id	WT0246-8
qc_type	NM
Pct_Solids	0
DUP_OF:	S9MW-14-0103

Parameter	units	Result	Val Qual	Qual Code
CHLORIDE	MG/L	760		
SULFATE	MG/L	180		
SULFIDE	MG/L	11		
TOTAL ORGANIC CARBON	MG/L	13		

nsample	S9MW-12-0103
samp_date	2/3/2003
lab_id	WT0246-2
qc_type	NM
Pct_Solids	0
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
CHLORIDE	MG/L	33		
SULFATE	MG/L	20		
SULFIDE	MG/L	2		
TOTAL ORGANIC CARBON	MG/L	8.1		

nsample	S9MW-14-0103
samp_date	2/1/2003
lab_id	WT0246-3
qc_type	NM
Pct_Solids	0
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
CHLORIDE	MG/L	810		
SULFATE	MG/L	170		
SULFIDE	MG/L	11		
TOTAL ORGANIC CARBON	MG/L	13		

PROJ_NO: 4202

SDG: 2334 MEDIA: WATER DATA FRACTION: M

nsample	S9MW-15-0103
samp_date	2/1/2003
lab_id	WT0246-4
qc_type	NM
Pct_Solids	0
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
CHLORIDE	MG/L	130		
SULFATE	MG/L	20		
SULFIDE	MG/L	7.4		
TOTAL ORGANIC CARBON	MG/L	10		

nsample	S9MW-21-0103
samp_date	2/2/2003
lab_id	WT0246-5
qc_type	NM
Pct_Solids	0
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
CHLORIDE	MG/L	3400		
SULFATE	MG/L	590		
SULFIDE	MG/L	5.9		
TOTAL ORGANIC CARBON	MG/L	10		

nsample	S9MW-22-0103
samp_date	2/2/2003
lab_id	WT0246-13
qc_type	NM
Pct_Solids	0
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
CHLORIDE	MG/L	2500		
SULFATE	MG/L	510		
SULFIDE	MG/L	5.9		
TOTAL ORGANIC CARBON	MG/L	14		

PROJ_NO: 4202

SDG: 2334 MEDIA: WATER DATA FRACTION: M

nsample	S9MW-24-0103
samp_date	2/2/2003
lab_id	WT0246-6
qc_type	NM
Pct_Solids	0
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
CHLORIDE	MG/L	3900		
SULFATE	MG/L	470		
SULFIDE	MG/L	12		
TOTAL ORGANIC CARBON	MG/L	78		

nsample	S9MW-25-0103
samp_date	2/2/2003
lab_id	WT0246-7
qc_type	NM
Pct_Solids	0
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
CHLORIDE	MG/L	2000		
SULFATE	MG/L	650		
SULFIDE	MG/L	5.9		
TOTAL ORGANIC CARBON	MG/L	15		

nsample	S9MW-5-0103
samp_date	2/1/2003
lab_id	WT0246-1
qc_type	NM
Pct_Solids	0
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
CHLORIDE	MG/L	34		
SULFATE	MG/L	10		
SULFIDE	MG/L	0.65	J	P
TOTAL ORGANIC CARBON	MG/L	24		

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** 0103-DUP-01

Matrix: WATER **SDG Name:** CTO233-4

Percent Solids: 0.00 **Lab Sample ID:** WT0233-007

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	96.25	U		P	5
7440-36-0	ANTIMONY	3.57	U		P	3
7440-38-2	ARSENIC	8.2	B		P	3
7440-39-3	BARIUM	26.2			P	5
7440-41-7	BERYLLIUM	1.60	U		P	5
7440-43-9	CADMIUM	12.95	U		P	5
7440-70-2	CALCIUM	582000			P	5
7440-47-3	CHROMIUM	2.2	B		P	3
7440-48-4	COBALT	1.65	U		P	3
7440-50-8	COPPER	11.85	U		P	5
7439-89-6	IRON	156	B		P	5
7439-92-1	LEAD	2.61	U		P	3
7439-95-4	MAGNESIUM	1110000			P	5
7439-96-5	MANGANESE	2.90	U		P	5
7439-97-6	MERCURY	0.10	B		CV	1
7440-02-0	NICKEL	50.85	U		P	5
7440-09-7	POTASSIUM	347000			P	5
7782-49-2	SELENIUM	6.36	U	N	P	3
7440-22-4	SILVER	12.25	U		P	5
7440-23-5	SODIUM	8200000			P	50
7440-28-0	THALLIUM	8.55	U		P	3
7440-31-5	TIN	5.97	U		P	3
7440-62-2	VANADIUM	25.85	U		P	5
7440-66-6	ZINC	6.05	U		P	5

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

I

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** FC-MW-05-0103

Matrix: WATER **SDG Name:** CTO233-4

Percent Solids: 0.00 **Lab Sample ID:** WT0233-003

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-92-1	LEAD	1.0	B		P	1

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** FC-MW-06-0103

Matrix: WATER **SDG Name:** CTO233-4

Percent Solids: 0.00 **Lab Sample ID:** WT0233-001

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-92-1	LEAD	3.6	B		P	1

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** FC-MW-20R-0103

Matrix: WATER **SDG Name:** CTO233-4

Percent Solids: 0.00 **Lab Sample ID:** WT0233-002

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-92-1	LEAD	40.2			P	1

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** I8MW8-1-0103

Matrix: WATER **SDG Name:** CTO233-4

Percent Solids: 0.00 **Lab Sample ID:** WT0233-004

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	96.25	U		P	5
7440-36-0	ANTIMONY	3.57	U		P	3
7440-38-2	ARSENIC	5.5	B		P	3
7440-39-3	BARIUM	110			P	5
7440-41-7	BERYLLIUM	1.60	U		P	5
7440-43-9	CADMIUM	12.95	U		P	5
7440-70-2	CALCIUM	238000			P	5
7440-47-3	CHROMIUM	1.8	B		P	3
7440-48-4	COBALT	1.65	U		P	3
7440-50-8	COPPER	11.85	U		P	5
7439-89-6	IRON	23.65	U		P	5
7439-92-1	LEAD	2.61	U		P	3
7439-95-4	MAGNESIUM	1020000			P	5
7439-96-5	MANGANESE	20.2	B		P	5
7439-97-6	MERCURY	0.09	B		CV	1
7440-02-0	NICKEL	50.85	U		P	5
7440-09-7	POTASSIUM	355000			P	5
7782-49-2	SELENIUM	6.36	U	N	P	3
7440-22-4	SILVER	12.25	U		P	5
7440-23-5	SODIUM	8320000			P	50
7440-28-0	THALLIUM	8.55	U		P	3
7440-31-5	TIN	5.97	U		P	3
7440-62-2	VANADIUM	25.85	U		P	5
7440-66-6	ZINC	6.05	U		P	5

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** I8MW8-2-0103

Matrix: WATER **SDG Name:** CTO233-4

Percent Solids: 0.00 **Lab Sample ID:** WT0233-005

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	124	B		P	5
7440-36-0	ANTIMONY	17.2	B		P	3
7440-38-2	ARSENIC	53.1			P	3
7440-39-3	BARIUM	90.7			P	5
7440-41-7	BERYLLIUM	1.60	U		P	5
7440-43-9	CADMIUM	12.95	U		P	5
7440-70-2	CALCIUM	514000			P	5
7440-47-3	CHROMIUM	7.1	B		P	3
7440-48-4	COBALT	1.65	U		P	3
7440-50-8	COPPER	11.85	U		P	5
7439-89-6	IRON	159	B		P	5
7439-92-1	LEAD	2.61	U		P	3
7439-95-4	MAGNESIUM	1400000			P	5
7439-96-5	MANGANESE	2.90	U		P	5
7439-97-6	MERCURY	0.09	B		CV	1
7440-02-0	NICKEL	50.85	U		P	5
7440-09-7	POTASSIUM	462000			P	5
7782-49-2	SELENIUM	6.36	U	N	P	3
7440-22-4	SILVER	12.25	U		P	5
7440-23-5	SODIUM	11200000			P	50
7440-28-0	THALLIUM	8.55	U		P	3
7440-31-5	TIN	5.97	U		P	3
7440-62-2	VANADIUM	30.2	B		P	5
7440-66-6	ZINC	11.7	B		P	5

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** S1MW-7-0103

Matrix: WATER **SDG Name:** CTO233-4

Percent Solids: 0.00 **Lab Sample ID:** WT0233-006

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	96.25	U		P	5
7440-36-0	ANTIMONY	4.0	B		P	3
7440-38-2	ARSENIC	11.6	B		P	3
7440-39-3	BARIUM	23.4	B		P	5
7440-41-7	BERYLLIUM	1.60	U		P	5
7440-43-9	CADMIUM	12.95	U		P	5
7440-70-2	CALCIUM	576000			P	5
7440-47-3	CHROMIUM	2.3	B		P	3
7440-48-4	COBALT	1.65	U		P	3
7440-50-8	COPPER	11.85	U		P	5
7439-89-6	IRON	111	B		P	5
7439-92-1	LEAD	2.61	U		P	3
7439-95-4	MAGNESIUM	1100000			P	5
7439-96-5	MANGANESE	2.90	U		P	5
7439-97-6	MERCURY	0.09	B		CV	1
7440-02-0	NICKEL	50.85	U		P	5
7440-09-7	POTASSIUM	348000			P	5
7782-49-2	SELENIUM	6.36	U	N	P	3
7440-22-4	SILVER	12.25	U		P	5
7440-23-5	SODIUM	8410000			P	50
7440-28-0	THALLIUM	8.55	U		P	3
7440-31-5	TIN	5.97	U		P	3
7440-62-2	VANADIUM	25.85	U		P	5
7440-66-6	ZINC	11.0	B		P	5

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** S1SW-1-0103

Matrix: WATER **SDG Name:** CTO233-4

Percent Solids: 0.00 **Lab Sample ID:** WT0246-010

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	132	B		P	3
7440-36-0	ANTIMONY	13.9	B		P	5
7440-38-2	ARSENIC	7.80	U		P	5
7440-39-3	BARIUM	123			P	3
7440-41-7	BERYLLIUM	0.96	U		P	3
7440-43-9	CADMIUM	7.77	U		P	3
7440-70-2	CALCIUM	1250000			P	3
7440-47-3	CHROMIUM	41.4	B		P	5
7440-48-4	COBALT	2.75	U		P	5
7440-50-8	COPPER	16.6	B		P	3
7439-89-6	IRON	31.2	B		P	3
7439-92-1	LEAD	4.35	U		P	5
7439-95-4	MAGNESIUM	1540000			P	10
7439-96-5	MANGANESE	5.80	U		P	10
7439-97-6	MERCURY	0.83			CV	1
7440-02-0	NICKEL	30.51	U		P	3
7440-09-7	POTASSIUM	679000			P	3
7782-49-2	SELENIUM	10.60	U		P	5
7440-22-4	SILVER	7.35	U		P	3
7440-23-5	SODIUM	15200000			P	100
7440-28-0	THALLIUM	14.25	U		P	5
7440-31-5	TIN	9.95	U		P	5
7440-62-2	VANADIUM	28.4	B		P	3
7440-66-6	ZINC	7.1	B		P	3

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** S1SW-2-0103

Matrix: WATER **SDG Name:** CTO233-4

Percent Solids: 0.00 **Lab Sample ID:** WT0246-011

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	96.25	U		P	5
7440-36-0	ANTIMONY	3.57	U		P	3
7440-38-2	ARSENIC	4.68	U		P	3
7440-39-3	BARIUM	17.3	B		P	5
7440-41-7	BERYLLIUM	1.60	U		P	5
7440-43-9	CADMIUM	12.95	U		P	5
7440-70-2	CALCIUM	559000			P	10
7440-47-3	CHROMIUM	1.26	U		P	3
7440-48-4	COBALT	1.65	U		P	3
7440-50-8	COPPER	11.85	U		P	5
7439-89-6	IRON	183	B		P	5
7439-92-1	LEAD	2.61	U		P	3
7439-95-4	MAGNESIUM	1670000			P	10
7439-96-5	MANGANESE	2.90	U		P	5
7439-97-6	MERCURY	0.08	B		CV	1
7440-02-0	NICKEL	50.85	U		P	5
7440-09-7	POTASSIUM	526000			P	10
7782-49-2	SELENIUM	6.36	U		P	3
7440-22-4	SILVER	12.25	U		P	5
7440-23-5	SODIUM	13400000			P	100
7440-28-0	THALLIUM	8.55	U		P	3
7440-31-5	TIN	5.97	U		P	3
7440-62-2	VANADIUM	25.85	U		P	5
7440-66-6	ZINC	51.2	B		P	5

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** S1SW-3-0103

Matrix: WATER **SDG Name:** CTO233-4

Percent Solids: 0.00 **Lab Sample ID:** WT0246-012

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	281	B		P	3
7440-36-0	ANTIMONY	5.4	B		P	3
7440-38-2	ARSENIC	4.68	U		P	3
7440-39-3	BARIUM	52.6			P	3
7440-41-7	BERYLLIUM	0.96	U		P	3
7440-43-9	CADMIUM	17.6	B		P	3
7440-70-2	CALCIUM	606000			P	10
7440-47-3	CHROMIUM	62.4			P	3
7440-48-4	COBALT	1.65	U		P	3
7440-50-8	COPPER	28.9	B		P	3
7439-89-6	IRON	412			P	3
7439-92-1	LEAD	320			P	3
7439-95-4	MAGNESIUM	1380000			P	10
7439-96-5	MANGANESE	127			P	3
7439-97-6	MERCURY	0.40			CV	1
7440-02-0	NICKEL	30.51	U		P	3
7440-09-7	POTASSIUM	453000			P	3
7782-49-2	SELENIUM	6.36	U		P	3
7440-22-4	SILVER	7.35	U		P	3
7440-23-5	SODIUM	10300000			P	100
7440-28-0	THALLIUM	8.55	U		P	3
7440-31-5	TIN	5.97	U		P	3
7440-62-2	VANADIUM	15.51	U		P	3
7440-66-6	ZINC	120			P	3

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh, PA 15220

Lab Sample Id: WT0246-8
Report Date: 3/3/03 1:52:13 PM
Client PO: MSA-0402-N4113-05 N4202-WR308(SS)
Project: NAF KEY WEST CTO233
SDG: CTO233-4

Sample Description	Matrix	Date Sampled	Date Received
0103-DUP-06	AQ	02/01/2003	02/04/2003

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Chloride	760 mg/L	200	EPA 300.0	02/28/03 11:11	PAG	N/A	N/A	N/A	
Sulfate	180 mg/L	10	EPA 300.0	02/28/03 11:11	PAG	N/A	N/A	N/A	
Sulfide-Iodometric	11 mg/L	1.0	EPA 376.1	02/06/03 12:03	JF	N/A	N/A	N/A	
Total Organic Carbon	13 mg/L	1.0	EPA 415.1	02/06/03 13:54	CYD	N/A	N/A	N/A	

Notes

340 County Road No. 5
P.O. Box 720, Westbrook, ME 04098
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
sales@katahdinlab.com

Katahdin
ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh, PA 15220

Lab Sample Id: WT0246-2
Report Date: 3/3/03 1:52:13 PM
Client PO: MSA-0402-N4113-05 N4202-WR308(SS)
Project: NAF KEY WEST CTO233
SDG: CTO233-4

Sample Description	Matrix	Date Sampled	Date Received
S9MW-12-0103	AQ	02/03/2003	02/04/2003

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Chloride	33 mg/L	10	EPA 300.0	02/27/03 11:54	PAG	N/A	N/A	N/A	
Sulfate	20 mg/L	5.0	EPA 300.0	02/27/03 11:54	PAG	N/A	N/A	N/A	
Sulfide-Iodometric	2 mg/L	1.0	EPA 376.1	02/06/03 10:15	JF	N/A	N/A	N/A	
Total Organic Carbon	8.1 mg/L	1.0	EPA 415.1	02/06/03 13:12	CYD	N/A	N/A	N/A	

Notes

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Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh, PA 15220

Lab Sample Id: WT0246-3
Report Date: 3/3/03 1:52:13 PM
Client PO: MSA-0402-N4113-05 N4202-WR308(SS)
Project: NAF KEY WEST CTO233
SDG: CTO233-4

Sample Description	Matrix	Date Sampled	Date Received
S9MW-14-0103	AQ	02/01/2003	02/04/2003

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Chloride	810 mg/L	100	EPA 300.0	02/27/03 12:24	PAG	N/A	N/A	N/A	
Sulfate	170 mg/L	20	EPA 300.0	02/27/03 12:24	PAG	N/A	N/A	N/A	
Sulfide-Iodometric	11 mg/L	1.0	EPA 376.1	02/06/03 10:20	JF	N/A	N/A	N/A	
Total Organic Carbon	13 mg/L	1.0	EPA 415.1	02/06/03 13:18	CYD	N/A	N/A	N/A	

Notes

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Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh, PA 15220

Lab Sample Id: WT0246-4
Report Date: 3/3/03 1:52:13 PM
Client PO: MSA-0402-N4113-05 N4202-WR308(SS)
Project: NAF KEY WEST CTO233
SDG: CTO233-4

Sample Description	Matrix	Date Sampled	Date Received
S9MW-15-0103	AQ	02/01/2003	02/04/2003

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Chloride	130 mg/L	20	EPA 300.0	02/27/03 12:34	PAG	N/A	N/A	N/A	
Sulfate	20 mg/L	5.0	EPA 300.0	02/27/03 12:34	PAG	N/A	N/A	N/A	
Sulfide-Iodometric	7.4 mg/L	1.0	EPA 376.1	02/06/03 11:15	JF	N/A	N/A	N/A	
Total Organic Carbon	10 mg/L	1.0	EPA 415.1	02/06/03 13:24	CYD	N/A	N/A	N/A	

Notes

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Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh, PA 15220

Lab Sample Id: WT0246-5
Report Date: 3/3/03 1:52:13 PM
Client PO: MSA-0402-N4113-05 N4202-WR308(SS)
Project: NAF KEY WEST CTO233
SDG: CTO233-4

Sample Description	Matrix	Date Sampled	Date Received
S9MW-21-0103	AQ	02/02/2003	02/04/2003

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Chloride	3400 mg/L	1000	EPA 300.0	02/27/03 12:44	PAG	N/A	N/A	N/A	
Sulfate	590 mg/L	100	EPA 300.0	02/27/03 12:44	PAG	N/A	N/A	N/A	
Sulfide-Iodometric	5.9 mg/L	1.0	EPA 376.1	02/06/03 11:25	JF	N/A	N/A	N/A	
Total Organic Carbon	10 mg/L	1.0	EPA 415.1	02/06/03 13:30	CYD	N/A	N/A	N/A	

Notes

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Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh, PA 15220

Lab Sample Id: WT0246-13
Report Date: 3/3/03 1:52:13 PM
Client PO: MSA-0402-N4113-05 N4202-WR308(SS)
Project: NAF KEY WEST CTO233
SDG: CTO233-4

Sample Description	Matrix	Date Sampled	Date Received
S9MW-22-0103	AQ	02/02/2003	02/04/2003

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Chloride	2500 mg/L	400	EPA 300.0	02/28/03 11:31	PAG	N/A	N/A	N/A	
Sulfate	510 mg/L	50	EPA 300.0	02/28/03 11:31	PAG	N/A	N/A	N/A	
Sulfide-Iodometric	5.9 mg/L	1.0	EPA 376.1	02/06/03 12:15	JF	N/A	N/A	N/A	
Total Organic Carbon	14 mg/L	1.0	EPA 415.1	02/06/03 13:00	CYD	N/A	N/A	N/A	

Notes

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Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh, PA 15220

Lab Sample Id: WT0246-6
Report Date: 3/3/03 1:52:13 PM
Client PO: MSA-0402-N4113-05 N4202-WR308(SS)
Project: NAF KEY WEST CTO233
SDG: CTO233-4

Sample Description	Matrix	Date Sampled	Date Received
S9MW-24-0103	AQ	02/02/2003	02/04/2003

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Chloride	3900 mg/L	1000	EPA 300.0	02/28/03 10:51	PAG	N/A	N/A	N/A	
Sulfate	470 mg/L	50	EPA 300.0	02/28/03 10:51	PAG	N/A	N/A	N/A	
Sulfide-Iodometric	12 mg/L	1.0	EPA 376.1	02/06/03 11:45	JF	N/A	N/A	N/A	
Total Organic Carbon	78 mg/L	1.0	EPA 415.1	02/06/03 13:36	CYD	N/A	N/A	N/A	

Notes

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Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh, PA 15220

Lab Sample Id: WT0246-7
Report Date: 3/3/03 1:52:13 PM
Client PO: MSA-0402-N4113-05 N4202-WR308(SS)
Project: NAF KEY WEST CTO233
SDG: CTO233-4

Sample Description	Matrix	Date Sampled	Date Received
S9MW-25-0103	AQ	02/02/2003	02/04/2003

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Chloride	2000 mg/L	1000	EPA 300.0	02/28/03 11:01	PAG	N/A	N/A	N/A	
Sulfate	650 mg/L	100	EPA 300.0	02/28/03 11:01	PAG	N/A	N/A	N/A	
Sulfide-Iodometric	5.9 mg/L	1.0	EPA 376.1	02/06/03 11:55	JF	N/A	N/A	N/A	
Total Organic Carbon	15 mg/L	1.0	EPA 415.1	02/06/03 13:42	CYD	N/A	N/A	N/A	

Notes

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Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh, PA 15220

Lab Sample Id: WT0246-1
Report Date: 3/3/03 1:52:13 PM
Client PO: MSA-0402-N4113-05 N4202-WR308(SS)
Project: NAF KEY WEST CTO233
SDG: CTO233-4

Sample Description	Matrix	Date Sampled	Date Received
S9MW-5-0103	AQ	02/01/2003	02/04/2003

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Chloride	34 mg/L	10	EPA 300.0	02/27/03 11:44	PAG	N/A	N/A	N/A	
Sulfate	10 mg/L	5.0	EPA 300.0	02/27/03 11:44	PAG	N/A	N/A	N/A	
Sulfide-Iodometric	J0.65 mg/L	1.0	EPA 376.1	02/06/03 10:10	JF	N/A	N/A	N/A	1
Total Organic Carbon	24 mg/L	1.0	EPA 415.1	02/06/03 13:06	CYD	N/A	N/A	N/A	

Notes

(1) 'J' flag denotes an estimated value. The analyte was detected in the sample at a concentration greater than the measured detection limit but less than the laboratory's Practical Quantitation Level.

APPENDIX C

SUPPORT DOCUMENTATION

2334

HOLDING TIME
03/13/03

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/L	0103-DUP-06	WT0246-8	NORMAL	2334	CL	02/01/03	02/28/03	02/28/03	27	0	27
MG/L	0103-DUP-06DUP	WT0246-8 DUP	DUPLICATE	2334	CL	02/01/03	02/28/03	02/28/03	27	0	27
MG/L	LABQC	MBLANK	P BLANK	2334	CL	02/07/03	02/27/03	02/27/03	20	0	20
MG/L	S9MW-12-0103	WT0246-2	NORMAL	2334	CL	02/03/03	02/27/03	02/27/03	24	0	24
MG/L	S9MW-12-0103DUP	WT0246-2 DUP	DUPLICATE	2334	CL	02/03/03	02/27/03	02/27/03	24	0	24
MG/L	S9MW-12-0103MS	WT0246-2 MS	MS	2334	CL	02/03/03	02/27/03	02/27/03	24	0	24
MG/L	S9MW-14-0103	WT0246-3	NORMAL	2334	CL	02/01/03	02/27/03	02/27/03	26	0	26
MG/L	S9MW-15-0103	WT0246-4	NORMAL	2334	CL	02/01/03	02/27/03	02/27/03	26	0	26
MG/L	S9MW-21-0103	WT0246-5	NORMAL	2334	CL	02/02/03	02/27/03	02/27/03	25	0	25
MG/L	S9MW-22-0103	WT0246-13	NORMAL	2334	CL	02/02/03	02/28/03	02/28/03	26	0	26
MG/L	S9MW-24-0103	WT0246-6	NORMAL	2334	CL	02/02/03	02/28/03	02/28/03	26	0	26
MG/L	S9MW-25-0103	WT0246-7	NORMAL	2334	CL	02/02/03	02/28/03	02/28/03	26	0	26
MG/L	S9MW-5-0103	WT0246-1	NORMAL	2334	CL	02/01/03	02/27/03	02/27/03	26	0	26
%	FC-MW-05-0103	WT0233-3	NORMAL	2334	EDB	01/31/03	02/10/03	02/10/03	10	0	10
%	FC-MW-06-0103	WT0233-1	NORMAL	2334	EDB	01/31/03	02/10/03	02/10/03	10	0	10
%	FC-MW-20R-0103	WT0233-2	NORMAL	2334	EDB	01/31/03	02/10/03	02/10/03	10	0	10
%	WG1604-BLANK	WG1604-1	P BLANK	2334	EDB	02/10/03	02/10/03	02/10/03	0	0	0
%	WG1604-LCS	WG1604-2	LCS	2334	EDB	02/10/03	02/10/03	02/10/03	0	0	0
%	WG1604-LCSD	WG1604-3	LCSD	2334	EDB	02/10/03	02/10/03	02/10/03	0	0	0
UG/L	0103-DUP-01	WT0233-007	NORMAL	2334	HG	01/31/03	02/11/03	02/11/03	11	0	11
UG/L	I8MW8-1-0103	WT0233-004	NORMAL	2334	HG	01/31/03	02/11/03	02/11/03	11	0	11
UG/L	I8MW8-2-0103	WT0233-005	NORMAL	2334	HG	01/31/03	02/11/03	02/11/03	11	0	11
UG/L	LABQC	PBWTB11HGW0	LCSD	2334	HG	02/27/03	02/11/03	02/11/03	-16	0	-16
UG/L	S1MW-7-0103	WT0233-006	NORMAL	2334	HG	01/31/03	02/11/03	02/11/03	11	0	11

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	S1SW-1-0103	WT0246-010	NORMAL	2334	HG	02/01/03	02/11/03	02/11/03	10	0	10
UG/L	S1SW-2-0103	WT0246-011	NORMAL	2334	HG	02/01/03	02/11/03	02/11/03	10	0	10
UG/L	S1SW-3-0103	WT0246-012	NORMAL	2334	HG	02/01/03	02/11/03	02/11/03	10	0	10
UG/L	0103-DUP-01	WT0233-007	NORMAL	2334	M	01/31/03	02/05/03	02/06/03	5	1	6
UG/L	FC-MW-05-0103	WT0233-003	NORMAL	2334	M	01/31/03	02/05/03	02/12/03	5	7	12
UG/L	FC-MW-06-0103	WT0233-001	NORMAL	2334	M	01/31/03	02/05/03	02/12/03	5	7	12
UG/L	FC-MW-20R-0103	WT0233-002	NORMAL	2334	M	01/31/03	02/05/03	02/12/03	5	7	12
UG/L	I8MW8-1-0103	WT0233-004	NORMAL	2334	M	01/31/03	02/05/03	02/06/03	5	1	6
UG/L	I8MW8-1-0103MS	WT0233-004S	MS	2334	M	01/31/03	02/05/03	02/06/03	5	1	6
UG/L	I8MW8-1-0103MSD	WT0233-004P	MSD	2334	M	01/31/03	02/05/03	02/06/03	5	1	6
UG/L	I8MW8-2-0103	WT0233-005	NORMAL	2334	M	01/31/03	02/05/03	02/06/03	5	1	6
UG/L	LABQC	PBWTB07ICW0	P BLANK	2334	M	02/07/03	02/07/03	02/10/03	0	3	3
UG/L	S1MW-7-0103	WT0233-006	NORMAL	2334	M	01/31/03	02/05/03	02/06/03	5	1	6
UG/L	S1SW-1-0103	WT0246-010	NORMAL	2334	M	02/01/03	02/07/03	02/11/03	6	4	10
UG/L	S1SW-2-0103	WT0246-011	NORMAL	2334	M	02/01/03	02/07/03	02/25/03	6	18	24
UG/L	S1SW-3-0103	WT0246-012	NORMAL	2334	M	02/01/03	02/07/03	02/13/03	6	6	12
UG/L	0103-DUP-01	WT0233-7	NORMAL	2334	OS	01/31/03	02/05/03	03/04/03	5	27	32
UG/L	S1MW-7-0103	WT0233-6	NORMAL	2334	OS	01/31/03	02/05/03	03/03/03	5	26	31
UG/L	S1SW-1-0103	WT0246-10	NORMAL	2334	OS	02/01/03	02/05/03	03/04/03	4	27	31
UG/L	S1SW-2-0103	WT0246-11	NORMAL	2334	OS	02/01/03	02/05/03	03/03/03	4	26	30
UG/L	WG1575-BLANK	WG1575-1	P BLANK	2334	OS	02/04/03	02/05/03	03/03/03	1	26	27
UG/L	WG1575-LCS	WG1575-2	LCS	2334	OS	02/04/03	02/05/03	03/04/03	1	27	28
UG/L	WG1575-LCSD	WG1575-3	LCSD	2334	OS	02/04/03	02/05/03	03/05/03	1	28	29
UG/L	0103-DUP-01	WT0233-7	NORMAL	2334	OV	01/31/03	02/07/03	02/07/03	7	0	7
UG/L	0103-DUP-06	WT0246-8	NORMAL	2334	OV	02/01/03	02/07/03	02/07/03	6	0	6
UG/L	0103-DUP-06DL	WT0246-8DL	DL	2334	OV	02/01/03	02/10/03	02/10/03	9	0	9
UG/L	FC-MW-05-0103	WT0233-3	NORMAL	2334	OV	01/31/03	02/06/03	02/06/03	6	0	6

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	FC-MW-06-0103	WT0233-1	NORMAL	2334	OV	01/31/03	02/07/03	02/07/03	7	0	7
UG/L	FC-MW-20R-0103	WT0233-2	NORMAL	2334	OV	01/31/03	02/06/03	02/06/03	6	0	6
UG/L	S1MW-5-0103	WT0246-9	NORMAL	2334	OV	02/01/03	02/10/03	02/10/03	9	0	9
UG/L	S1MW-7-0103	WT0233-6	NORMAL	2334	OV	01/31/03	02/07/03	02/07/03	7	0	7
UG/L	S9MW-12-0103	WT0246-2	NORMAL	2334	OV	02/03/03	02/07/03	02/07/03	4	0	4
UG/L	S9MW-14-0103	WT0246-3	NORMAL	2334	OV	02/01/03	02/07/03	02/07/03	6	0	6
UG/L	S9MW-14-0103DL	WT0246-3DL	DL	2334	OV	02/01/03	02/10/03	02/10/03	9	0	9
UG/L	S9MW-15-0103	WT0246-4	NORMAL	2334	OV	02/01/03	02/07/03	02/07/03	6	0	6
UG/L	S9MW-15-0103DL	WT0246-4DL	DL	2334	OV	02/01/03	02/10/03	02/10/03	9	0	9
UG/L	S9MW-21-0103	WT0246-5	NORMAL	2334	OV	02/02/03	02/10/03	02/10/03	8	0	8
UG/L	S9MW-22-0103	WT0246-13	NORMAL	2334	OV	02/02/03	02/07/03	02/07/03	5	0	5
UG/L	S9MW-22-0103DL	WT0246-13DL	DL	2334	OV	02/02/03	02/10/03	02/10/03	8	0	8
UG/L	S9MW-24-0103	WT0246-6	NORMAL	2334	OV	02/02/03	02/07/03	02/07/03	5	0	5
UG/L	S9MW-24-0103DL	WT0246-6DL	DL	2334	OV	02/02/03	02/10/03	02/10/03	8	0	8
UG/L	S9MW-25-0103	WT0246-7	NORMAL	2334	OV	02/02/03	02/07/03	02/07/03	5	0	5
UG/L	S9MW-5-0103	WT0246-1	NORMAL	2334	OV	02/01/03	02/07/03	02/07/03	6	0	6
UG/L	S9MW-5-0103MS	WG1695-3	MS	2334	OV	02/01/03	02/10/03	02/10/03	9	0	9
UG/L	S9MW-5-0103MSD	WG1695-4	MSD	2334	OV	02/01/03	02/10/03	02/10/03	9	0	9
UG/L	TB-013103	WT0233-8	NORMAL	2334	OV	01/21/03	02/07/03	02/07/03	17	0	17
UG/L	TB-020303	WT0246-14	NORMAL	2334	OV	01/21/03	02/07/03	02/07/03	17	0	17
UG/L	WG1669-BLANK	WG1669-1	P BLANK	2334	OV	02/05/03	02/05/03	02/05/03	0	0	0
UG/L	WG1669-LCS	WG1669-2	LCS	2334	OV	02/05/03	02/05/03	02/05/03	0	0	0
UG/L	WG1670-BLANK	WG1670-1	P BLANK	2334	OV	02/07/02	02/07/03	02/07/03	365	0	365
UG/L	WG1670-LCS	WG1670-2	LCS	2334	OV	02/07/02	02/07/03	02/07/03	365	0	365
UG/L	WG1691-BLANK	WG1691-1	P BLANK	2334	OV	02/07/03	02/07/03	02/07/03	0	0	0
UG/L	WG1691-LCS	WG1691-2	LCS	2334	OV	02/07/03	02/07/03	02/07/03	0	0	0
UG/L	WG1695-BLANK	WG1695-1	P BLANK	2334	OV	02/10/03	02/10/03	02/10/03	0	0	0

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	WG1695-LCS	WG1695-2	LCS	2334	OV	02/10/03	02/10/03	02/10/03	0	0	0
UG/L	0103-DUP-01	WT0233-7	NORMAL	2334	PEST	01/31/03	02/04/03	02/20/03	4	16	20
UG/L	S1MW-7-0103	WT0233-6	NORMAL	2334	PEST	01/31/03	02/04/03	02/20/03	4	16	20
UG/L	S1SW-2-0103	WT0246-11	NORMAL	2334	PEST	02/01/03	02/07/03	02/20/03	6	13	19
UG/L	WG1560-BLANK	WG1560-1	P BLANK	2334	PEST	02/03/03	02/04/03	02/20/03	1	16	17
UG/L	WG1560-LCS	WG1560-2	LCS	2334	PEST	02/03/03	02/04/03	02/20/03	1	16	17
UG/L	WG1560-LCSD	WG1560-3	LCSD	2334	PEST	02/03/03	02/04/03	02/20/03	1	16	17
UG/L	WG1590-BLANK	WG1590-1	P BLANK	2334	PEST	02/06/03	02/07/03	02/17/03	1	10	11
UG/L	WG1590-LCS	WG1590-2	LCS	2334	PEST	02/06/03	02/07/03	02/17/03	1	10	11
%	FC-MW-05-0103	WT0233-3	NORMAL	2334	SIM	01/31/03	02/04/03	02/28/03	4	24	28
%	FC-MW-05-0103RA	WT0233-3RA	NORMAL	2334	SIM	01/31/03	02/04/03	02/28/03	4	24	28
%	FC-MW-06-0103	WT0233-1	NORMAL	2334	SIM	01/31/03	02/04/03	02/28/03	4	24	28
%	FC-MW-20R-0103	WT0233-2	NORMAL	2334	SIM	01/31/03	02/04/03	03/05/03	4	29	33
%	WG1567-BLANK	WG1567-1	P BLANK	2334	SIM	02/04/03	02/04/03	02/28/03	0	24	24
%	WG1567-LCS	WG1567-2	LCS	2334	SIM	02/04/03	02/04/03	02/28/03	0	24	24
%	WG1567-LCSD	WG1567-3	LCSD	2334	SIM	02/04/03	02/04/03	02/28/03	0	24	24
MG/L	0103-DUP-06	WT0246-8	NORMAL	2334	SO4	02/01/03	02/28/03	02/28/03	27	0	27
MG/L	0103-DUP-06DUP	WT0246-8 DUP	DUPLICATE	2334	SO4	02/01/03	02/28/03	02/28/03	27	0	27
MG/L	LABQC	MBLANK	P BLANK	2334	SO4	02/28/03	02/28/03	02/28/03	0	0	0
MG/L	S9MW-12-0103	WT0246-2	NORMAL	2334	SO4	02/03/03	02/27/03	02/27/03	24	0	24
MG/L	S9MW-12-0103DUP	WT0246-2 DUP	DUPLICATE	2334	SO4	02/03/03	02/27/03	02/27/03	24	0	24
MG/L	S9MW-12-0103MS	WT0246-2 MS	MS	2334	SO4	02/03/03	02/27/03	02/27/03	24	0	24
MG/L	S9MW-14-0103	WT0246-3	NORMAL	2334	SO4	02/01/03	02/27/03	02/27/03	26	0	26
MG/L	S9MW-15-0103	WT0246-4	NORMAL	2334	SO4	02/01/03	02/27/03	02/27/03	26	0	26
MG/L	S9MW-21-0103	WT0246-5	NORMAL	2334	SO4	02/02/03	02/27/03	02/27/03	25	0	25
MG/L	S9MW-22-0103	WT0246-13	NORMAL	2334	SO4	02/02/03	02/28/03	02/28/03	26	0	26
MG/L	S9MW-24-0103	WT0246-6	NORMAL	2334	SO4	02/02/03	02/28/03	02/28/03	26	0	26

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/L	S9MW-25-0103	WT0246-7	NORMAL	2334	SO4	02/02/03	02/28/03	02/28/03	26	0	26
MG/L	S9MW-5-0103	WT0246-1	NORMAL	2334	SO4	02/01/03	02/27/03	02/27/03	26	0	26
MG/L	0103-DUP-06	WT0246-8	NORMAL	2334	SUL	02/01/03	02/06/03	02/06/03	5	0	5
MG/L	LABQC	MBLANK	LCSD	2334	SUL	02/06/03	02/06/03	02/06/03	0	0	0
MG/L	S9MW-12-0103	WT0246-2	NORMAL	2334	SUL	02/03/03	02/06/03	02/06/03	3	0	3
MG/L	S9MW-14-0103	WT0246-3	NORMAL	2334	SUL	02/01/03	02/06/03	02/06/03	5	0	5
MG/L	S9MW-15-0103	WT0246-4	NORMAL	2334	SUL	02/01/03	02/06/03	02/06/03	5	0	5
MG/L	S9MW-21-0103	WT0246-5	NORMAL	2334	SUL	02/02/03	02/06/03	02/06/03	4	0	4
MG/L	S9MW-22-0103	WT0246-13	NORMAL	2334	SUL	02/02/03	02/06/03	02/06/03	4	0	4
MG/L	S9MW-24-0103	WT0246-6	NORMAL	2334	SUL	02/02/03	02/06/03	02/06/03	4	0	4
MG/L	S9MW-25-0103	WT0246-7	NORMAL	2334	SUL	02/02/03	02/06/03	02/06/03	4	0	4
MG/L	S9MW-5-0103	WT0246-1	NORMAL	2334	SUL	02/01/03	02/06/03	02/06/03	5	0	5
MG/L	0103-DUP-06	WT0246-8	NORMAL	2334	TOC	02/01/03	02/06/03	02/06/03	5	0	5
MG/L	0103-DUP-06MS	WT0246-8 MS	MS	2334	TOC	02/01/03	02/06/03	02/06/03	5	0	5
MG/L	LABQC	MBLANK	P BLANK	2334	TOC	02/28/03	02/06/03	02/06/03	-22	0	-22
MG/L	S9MW-12-0103	WT0246-2	NORMAL	2334	TOC	02/03/03	02/06/03	02/06/03	3	0	3
MG/L	S9MW-14-0103	WT0246-3	NORMAL	2334	TOC	02/01/03	02/06/03	02/06/03	5	0	5
MG/L	S9MW-15-0103	WT0246-4	NORMAL	2334	TOC	02/01/03	02/06/03	02/06/03	5	0	5
MG/L	S9MW-21-0103	WT0246-5	NORMAL	2334	TOC	02/02/03	02/06/03	02/06/03	4	0	4
MG/L	S9MW-22-0103	WT0246-13	NORMAL	2334	TOC	02/02/03	02/06/03	02/06/03	4	0	4
MG/L	S9MW-24-0103	WT0246-6	NORMAL	2334	TOC	02/02/03	02/06/03	02/06/03	4	0	4
MG/L	S9MW-25-0103	WT0246-7	NORMAL	2334	TOC	02/02/03	02/06/03	02/06/03	4	0	4
MG/L	S9MW-25-0103DUP	WT0246-7 DUP	DUPLICATE	2334	TOC	02/02/03	02/06/03	02/06/03	4	0	4
MG/L	S9MW-5-0103	WT0246-1	NORMAL	2334	TOC	02/01/03	02/06/03	02/06/03	5	0	5
UG/L	FC-MW-05-0103	WT0233-3	NORMAL	2334	TPH	01/31/03	02/06/03	02/19/03	6	13	19
UG/L	FC-MW-06-0103	WT0233-1	NORMAL	2334	TPH	01/31/03	02/06/03	02/19/03	6	13	19
UG/L	FC-MW-20R-0103	WT0233-2	NORMAL	2334	TPH	01/31/03	02/06/03	02/20/03	6	14	20

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	WG1582-BLANK	WG1582-1	P BLANK	2334	TPH	02/05/03	02/06/03	02/19/03	1	13	14
UG/L	WG1582-LCS	WG1582-2	LCS	2334	TPH	02/05/03	02/06/03	02/19/03	1	13	14
UG/L	WG1582-LCSD	WG1582-3	LCSD	2334	TPH	02/05/03	02/06/03	02/19/03	1	13	14

WT0233 HWT0234 ~~HWT0235~~

TETRA TECH NUS, INC.

CHAIN OF CUSTODY

NUMBER 3844

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
CTOs 207 + 233	NAF Key West	Chuck Bryan	803-649-7963	Andrea Colby - Katahdin
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
[signatures]		Emily McKee	305-216-8854	340 County Rd. No. 5
		CARRIER/WAYBILL NUMBER		CITY, STATE
		FedEx 8370 0119 8795		Westbrook, ME

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G / G / G / G / P / P / G / G / G

PRESERVATIVE USED: HCl / HCl / HCl / — / HNO3 / HNO3 / — / — / HCl

TYPE OF ANALYSIS

DATE YEAR 2003	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	PPL VOCs	EDB	TRPH	PAHs	Lead	TAL Metals + Tin	App IX SVOCs	App IX Pesticides	App IX VOCs	COMMENTS
1/31	0845	FC-MW-06-0103	MW-6	—	—	GW	G	10	X	X	X	X	X✓					CTO 207
1/31	0857	FC-MW-20R-0103	MW-20R	—	—	GW	G	10	X	X	X	X	X✓					CTO 207
1/31	1010	FC-MW-05-0103	MW-5	—	—	GW	G	10	X	X	X	X	X✓					CTO 207
1/31	1225	I8MW8-1-0103	MW-1	—	—	GW	G	1						X✓				CTO 233
1/31	1125	I8MW8-2-0103	MW-2	—	—	GW	G	1						X✓				CTO 233
1/31	1427	SIMW-7-0103	MW-7	—	—	GW	G	8						X✓	X	X	X	CTO 233
1/31	—	0103-DUP-01	—	—	—	GW	G	8						X✓	X	X	X	CTO 233
1/31	1520	SISD-5-0103	SD-5	—		SD	G	2						X		X		CTO 233
1/31	1535	SISD-2-0103	SD-2	—		SD	G	2						X		X	[illegible]	CTO 233
1/21		TB-013103	—	—		QC	—	2								X		

1. RELINQUISHED BY	DATE	TIME	1. RECEIVED BY	DATE	TIME
[signature]	1/31/03	1730	[signature]	2-1-03	10:30
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

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4/02R
FORM NO. TtNUS-001

000012

WTO246 WTO247

TETRA TECH NUS, INC. | **CHAIN OF CUSTODY** | **NUMBER** 3843 | **PAGE** 1 **OF** 2

PROJECT NO: CTO 233	**FACILITY:** NAF KW	**PROJECT MANAGER** Chuck Bryan	**PHONE NUMBER** 803-649-7963	**LABORATORY NAME AND CONTACT:** Katahdin - Andrea Colby
SAMPLERS (SIGNATURE) Emily McKee		**FIELD OPERATIONS LEADER** Emily McKee	**PHONE NUMBER** 305-216-8854	**ADDRESS** 340 County Rd. No. 5
		CARRIER/WAYBILL NUMBER 8370 0119 8784		**CITY, STATE** Westbrook, ME 04092

STANDARD TAT ☒ **RUSH TAT** ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE (YEAR 2003)	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	PRESERVATIVE USED	TYPE OF ANALYSIS: App IX VOC + cis-1,2-DCE	Sulfide	Sulfate+Chloride	TOC	App IX VOC	TAL Metals + Tin	App IX SVOC	App IX Pesticide	COMMENTS
									G	HCl									
									P	2mL NaOH									
									P										
									G	H_2SO_4									
									G	HCl									
									G	HNO3 (pH<2)									
									G	Cold Prod									
									G										
2/1	0937	S9MW-5-0103	MW-5	—	—	GW	G	7	3		1	1	2						
2/3	0835	S9MW-12-0103	MW-12	—	—	GW	G	7	3		1	1	2						
2/1	1550	S9MW-14-0103	MW-14	—	—	GW	G	7	3		1	1	2						
2/1	1515	S9MW-15-0103	MW-15	—	—	GW	G	7	3		1	1	2						
2/2	1440	S9MW-21-0603	MW-21	—	—	GW	G	7	3		1	1	2						
2/2	1420	S9MW-22-0103	MW-22	—	—	GW	G	7	3		1	1	2						
2/2	0920	S9MW-24-0103	MW-24	—	—	GW	G	7	3		1	1	2						
2/2	1005	S9MW-25-0103	MW-25	—	—	GW	G	7	3		1	1	2						
2/1	—	0103-DUP-06	—	—	—	GW	G	7	3		1	1	2						
2/1	1205	S1MW-5-0103	MW-5	—	—	GW	G	3						3					
2/1	0942	S1SD-1-0103	SD-1	—	—	SD	G	3							1	1	1		
2/1	0942	S1SD-1-0103-MS	SD-1	—	—	SD	G	3							1	1	1		
2/1	0942	S1SD-1-0103-MSD	SD-1	—	—	SD	G	3							1	1	1		

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY: Emily McKee	2/3/03	1500	1. RECEIVED BY:	2-4-03	0715
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

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FORM NO. TtNUS-001

WTO246 + WTO247

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 3842 | PAGE 2 OF 2

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
		CARRIER/WAYBILL NUMBER		CITY, STATE

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G; P (aq)
PRESERVATIVE USED: HNO_3 (aq)

TYPE OF ANALYSIS

DATE YEAR 2003	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	TAL Metals + Tin	App IX SVOC	App IX Pest	App IX VOC					COMMENTS
2/1	—	0103-DUP-02	—	—	—	SD	G	3	1	1	1						
2/1	0924	S1SD-2-0103	—	—	—	SD	G	2	1		1						
2/1	1020	S1SD-3-0103	SD-3	—	—	SD	G	2	1		1						
2/1	0942	S1SW-1-0103	SW-1	—	—	SW	G	3	1 ✓	2							
2/1	0924	S1SW-2-0103	SW-2	—	—	SW	G	5	1 ✓	2	2						
2/1	1020	S1SW-3-0103	SW-3	—	—	SW	G	1	1 ✓								
1/21	—	TB-020303	—	—	—	QC	—	2				2					

1. RELINQUISHED BY	DATE	TIME	1. RECEIVED BY [signature]	DATE 2-4-03	TIME 0915
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

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4/02R
FORM NO. TtNUS-001

000014

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
TETRA TECH NUS
CASE NAF KEY WEST CTO 233
TASK ORDER MANAGER: CHARLES BRYAN
CTO233-4

Sample Receipt

The following samples were received on February 1 and 4, 2003 and were logged in under Katahdin Analytical Services work order numbers WT0233 and WT0246 for a hardcopy due date of March 4, 2003.

KATAHDIN Sample No.	TTNUS Sample Identification
WT0233-1	FC-MW-06-0103
WT0233-2	FC-MW-20R-0103
WT0233-3	FC-MW-05-0103
WT0233-4	I8MW8-1-0103
WT0233-5	I8MW8-2-0103
WT0233-6	S1MW-7-0103
WT0233-7	0103-DUP-01
WT0233-8	TB-013103
WT0246-1	S9MW-5-0103
WT0246-2	S9MW-12-0103
WT0246-3	S9MW-14-0103
WT0246-4	S9MW-15-0103
WT0246-5	S9MW-21-0103
WT0246-6	S9MW-24-0103
WT0246-7	S9MW-25-0103
WT0246-8	0103-DUP-06
WT0246-9	S1MW-5-0103
WT0246-10	S1SW-1-0103
WT0246-11	S1SW-2-0103
WT0246-12	S1SW-3-0103
WT0246-13	S9MW-22-0103
WT0246-14	TB-020303

The samples were logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Andrea J. Colby**. This narrative is an integral part of the Report of Analysis.

Organics Laboratory

Samples WT0233-1 through -8 were received on February 1, 2003. Samples WT0246-1 through -14 were received on February 4, 2003. Some of the samples were analyzed for pesticides according to SW846 8081A and/or petroleum range organics (PRO) according to Florida DEP FL-PRO, and/or Ethylene dibromide (EDB) according to method EPA 504.1 and/or Volatile Organics according to EPA SW-846 8260B and/or semivolatiles according to SW846 method 8270C (Appendix IX) and/or PAHs using SIM analysis in order to achieve lower detection limits. The samples were extracted and analyzed within holding time, and all QC criteria were acceptable with the following comments:

8081 Analysis

The laboratory control sample (LCS) WG1590-2 had low recoveries for the extraction surrogate DCB on both channels. Since the recoveries for TCX were acceptable, no corrective action was taken.

The closing calibration verification standard (CV) (files 8TB1232 and 8TB2232) had high responses for seven analytes on channel A and six analytes on channel B. These responses resulted in %D's that were outside the method limit of 15%. The associated samples may be biased accordingly for the aforementioned analytes.

The closing CV (files 8TB3070 and 8TB4070) had high responses for Endrin ketone on both channels, as well as high responses for beta-BHC and 4,4'-DDD on channel A. All of these responses resulted in %D's that were outside of the method acceptance limit of 15%. Since these responses would indicate a high biased and the samples did not detect any analytes above the MDL, the sample data quality should not be affected.

The opening CV (file 8TB4084) had a low response for delta-BHC on channel B, which resulted in %D's that were outside the method acceptance limit of 15%. The associated samples may be biased low for delta-BHC on channel B.

All samples and the associated QC were put through a sulfur cleanup according to SW846 method 3660 using the copper powder technique.

PRO Analysis

Sample WT0233-2 was diluted in order to bring the high PRO concentration into the calibration range.

504.1 Analysis

The closing CV (file 3TB1027) had a high response for the surrogate TCMX, which resulted in a %D that was outside of the method acceptance limit of 30%. The associated samples may be biased high for the surrogate on both channels.

8260 Analysis

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) and Matrix spike samples (MS/MSD's) are statistically derived. Katahdin standard operating procedure is to not take corrective action until greater than ten percent of the spiked analytes in the LCS are outside of QC limits.

The calibration method analyzed for Appendix Nine analytes for these work orders had several analytes with %RSD values exceeding the method acceptance limit of 15%. For those analytes, either a linear or quadratic model was used for quantitation. The following four analytes failed for both the linear and quadratic models in the initial calibration, Iodomethane, Acetonitrile, Carbon tetrachloride, and 1,4-Dioxane. These four compounds were calibrated using the quadratic model. Since these analytes were not detected above the MDL for any of the associated samples and all other QC criteria was met, the associated samples were not reanalyzed. Bromomethane failed for both the linear and quadratic models in the 8260 initial calibration. This compound was calibrated using the quadratic model. Since this analyte was not detected above the MDL for any of the associated samples and all other QC criteria was met, the associated samples were not reanalyzed.

Some manual integrations were performed due to split peaks and corrected baselines. All have been flagged with a "M" (software-generated) on the pertinent quantitation reports.

The matrix spike sample WG1695-3 and matrix spike duplicate sample WG1695-4 had low and/or high recoveries for several analytes. The %RPD's between WG1695-3 and WG1695-4 for these analytes were outside of the acceptance limit of 20%. These deviations are likely due to the matrix of the sample.

Samples WT0246-3, -4, -6, -8, and -13 were reanalyzed at a dilution in order to bring one or more target analytes into the calibration range.

8270 Analysis

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) and Matrix spike samples (MS/MSD's) are statistically derived. Katahdin standard operating procedure is to not take corrective action until greater than ten percent of the spiked analytes in the LCS are outside of QC limits.

In the Appendix IX calibration curve analyzed for these workorders, there were eight Appendix IX analytes and two 8270 analytes that had %RSD values exceeding the method acceptance criteria of 15%. The calibration curve for SIM analysis of PAHs was compliant.

Some manual integrations were performed due to split peaks and/or corrected baselines. All have been flagged with an "M" (software generated) on the pertinent quantitation reports.

Sample WT0233-2 was diluted 1:250 in order to bring one or more high concentration target analytes into the calibration range. Consequently, the extraction surrogates were diluted out of range.

Sample WT0233-3 was analyzed twice due to high recoveries for the internal surrogates. The reanalysis also had a high internal surrogate confirming a matrix effect. The results for both analyses are reported.

Sample WT0246-11 had a low recovery for the extraction surrogate 2-Fluorophenol, which was outside of the laboratory established acceptance limits. Since the other surrogates were acceptable the sample was not reanalyzed.

There were no other protocol deviations or observations noted by the organics laboratory staff.

Metals Analysis

The samples of Katahdin SDG CTO233-4 were prepared and analyzed for metals in accordance with the "Test Methods for Evaluating Aqueous Waste", SW-846, November 1986, Third Edition.

Inductively-Coupled Plasma Atomic Emission Spectroscopic Analysis (ICP)

Aqueous-matrix Katahdin Sample Nos. WT0233-(1-7) were digested for ICP analysis on 02/05/03 (QC Batch TB05ICW1) in accordance with USEPA Method 3010A. Katahdin Sample No. WT0233-4 was prepared with duplicate matrix-spiked aliquots.

Aqueous-matrix Katahdin Sample Nos. WT0246-(10-12) were digested for ICP analysis on 02/07/03 (QC Batch TB07ICW0) in accordance with USEPA Method 3010A. Duplicate laboratory control samples were prepared in this batch.

ICP analyses of SDG CTO233-4 sample digestates were performed using a Thermo Jarrell Ash (TJA) Trace ICP spectrometer and a TJA 61E ICP spectrometer. All samples were analyzed within holding times and all analytical run QC criteria were met, with the following comments or exceptions:

Some of the results for run QC samples (ICV, ICB, CCV, CCB, ICSA, and ICSAB) included in the accompanying data package may have exceeded acceptance limits for some elements. Please note that all client samples and batch QC samples associated with out-of-control results for run QC samples were subsequently reanalyzed for the analytes in question.

Several samples required dilution prior to analysis due to matrix interference.

Analysis of Mercury by Cold Vapor Atomic Absorption (CVAA)

Aqueous-matrix Katahdin Sample Nos. WT0233-(4-7) and WT0246-(10-12) were digested for mercury analysis on 02/11/03 (QC Batch TB11HGW0) in accordance with USEPA Method 7470A. Duplicate laboratory control samples were prepared in this batch.

Mercury analyses of Katahdin SDG CTO233-4 sample digestates were performed using a Leeman Labs PS200 automated mercury analyzer. All samples were analyzed within holding times and all analytical run QC criteria were met.

Matrix QC Summary

Element recoveries for both of the matrix-spiked aliquots of Katahdin Sample No.WT0233-4 were within the laboratory's matrix spike recovery acceptance criteria (75% - 125% recovery of the added element, if the native concentration is less than four times the amount added) for all analytes except selenium.

The matrix-spike duplicate precision analysis of Katahdin Sample No. WT0233-4 was within the laboratory's acceptance limit (<20% relative percent difference between duplicate matrix-spiked aliquots) for all analytes.

The serial dilution analysis of Katahdin Sample No. WT0233-4 was within the laboratory's acceptance limit (<10% relative percent difference, if the concentration in the original sample is greater than 50 times the IDL) for all analytes.

Wet Chemistry Analysis

Samples were received on February 4, 2003 and logged in as work order WT0246. Analyses for Total Organic Carbon, and Sulfide were performed according to "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020, 1979, Revised 1983. Analyses for Chloride and Sulfate were performed according to U.S. EPA "Methods for the Determination of Inorganic Substances in Environmental Samples", EPA 600/R-93/100, August 1993.

All analyses were performed within analytical hold time. All quality control criteria were met.

No other deviations were noted by the Wet Chemistry group.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Operations Manager or the Quality Assurance Officer as verified by the following signature.

Maria Crouch
03.07.03
Maria Crouch
Quality Assurance Officer

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Katahdin Analytical Services

SDG Name: CTO233-4 **SOW No.** SW846

Client Field ID	Lab Sample ID
0103-DUP-01	WT0233-007
FC-MW-05-0103	WT0233-003
FC-MW-06-0103	WT0233-001
FC-MW-20R-0103	WT0233-002
I8MW8-1-0103	WT0233-004
I8MW8-1-0103	WT0233-004P
I8MW8-1-0103	WT0233-004S
I8MW8-2-0103	WT0233-005
S1MW-7-0103	WT0233-006
S1SW-1-0103	WT0246-010
S1SW-2-0103	WT0246-011
S1SW-3-0103	WT0246-012

Were ICP interelement corrections applied ?	Yes
Were ICP background corrections applied ?	Yes
If yes - were raw data generated before application of background corrections ?	No

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Edward A. Morgan Name: Edward A. Morgan

Date: February 27, 2003 Title: Senior Chemist

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** CTO233-4

Concentration Units: ug/L

SAMPLE: CCV

File: ATB12A Feb 12, 2003 21:58

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	48999.86	98.0
ANTIMONY	1000.0	1025.08	102.5
ARSENIC	1000.0	1068.51	106.9
CALCIUM	50000.0	52675.73	105.4
CHROMIUM	1000.0	1009.18	100.9
COBALT	1000.0	991.28	99.1
IRON	20000.0	20789.94	103.9
LEAD	1000.0	1064.64	106.5
MAGNESIUM	50000.0	50625.29	101.3
SELENIUM	1000.0	1058.97	105.9
THALLIUM	1000.0	1082.92	108.3
TIN	1000.0	1055.46	105.5

SAMPLE: CCV

File: ATB12A Feb 12, 2003 23:18

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	49898.92	99.8
ANTIMONY	1000.0	1046.01	104.6
ARSENIC	1000.0	1094.99	109.5
CALCIUM	50000.0	53785.26	107.6
CHROMIUM	1000.0	1028.83	102.9
COBALT	1000.0	1010.52	101.1
IRON	20000.0	21283.34	106.4
LEAD	1000.0	1087.22	108.7
MAGNESIUM	50000.0	51375.63	102.8
SELENIUM	1000.0	1081.70	108.2
THALLIUM	1000.0	1123.96	112.4
TIN	1000.0	1082.78	108.3

no samples bracketed by this CCV

(1) Control Limits: Mercury 80-120; Other Metals 90-110

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** CTO233-4

Concentration Units: ug/L

SAMPLE: CCV

File: BTB06A Feb 06, 2003 17:51

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	50679.31	101.4
BARIUM	1000.0	1025.19	102.5
BERYLLIUM	1000.0	1013.51	101.4
CADMIUM	1000.0	1003.14	100.3
CALCIUM	50000.0	50703.15	101.4
COPPER	1000.0	1023.93	102.4
IRON	20000.0	20630.23	103.2
MAGNESIUM	50000.0	51033.19	102.1
MANGANESE	1000.0	1008.02	100.8
NICKEL	1000.0	1020.48	102.0
POTASSIUM	50000.0	55357.73	110.7
SILVER	250.0	258.20	103.3
VANADIUM	1000.0	1018.08	101.8
ZINC	1000.0	1018.70	101.9

SAMPLE: CCV

File: BTB06A Feb 06, 2003 18:59

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	51505.12	103.0
BARIUM	1000.0	1041.56	104.2
BERYLLIUM	1000.0	1041.83	104.2
CADMIUM	1000.0	1055.55	105.6
CALCIUM	50000.0	52779.60	105.6
COPPER	1000.0	1038.05	103.8
IRON	20000.0	21182.92	105.9
MAGNESIUM	50000.0	51880.43	103.8
MANGANESE	1000.0	1045.88	104.6
NICKEL	1000.0	1048.08	104.8
POTASSIUM	50000.0	53181.39	106.4
SILVER	250.0	266.71	106.7
VANADIUM	1000.0	1051.31	105.1
ZINC	1000.0	1054.20	105.4

no samples bracketed by this CCV

(1) Control Limits: Mercury 80-120; Other Metals 90-110

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBWTB05ICW1

Matrix: WATER **SDG Name:** CTO233-4

QC Batch ID: TB05ICW1

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	RESULT	C
ALUMINUM	19.250	U
ANTIMONY	1.550	B
ARSENIC	1.560	U
BARIUM	0.400	U
BERYLLIUM	0.320	U
CADMIUM	-2.930	B
CALCIUM	11.920	U
CHROMIUM	0.670	B
COBALT	0.550	U
COPPER	2.370	U
IRON	6.740	B
LEAD	1.350	B
MAGNESIUM	23.830	U
MANGANESE	-1.550	B
NICKEL	10.170	U
POTASSIUM	472.000	U
SELENIUM	2.120	U
SILVER	2.450	U
SODIUM	144.070	B
THALLIUM	2.850	U
TIN	1.990	U
VANADIUM	5.170	U
ZINC	1.210	U

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBWTB071CW0

Matrix: WATER **SDG Name:** CTO233-4

QC Batch ID: TB071CW0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	RESULT	C
ALUMINUM	22.850	B
ANTIMONY	1.190	U
ARSENIC	1.560	U
BARIUM	0.400	U
BERYLLIUM	0.320	U
CADMIUM	-2.750	B
CALCIUM	21.910	B
CHROMIUM	0.420	U
COBALT	0.550	U
COPPER	2.370	U
IRON	4.730	U
LEAD	0.870	U
MAGNESIUM	23.830	U
MANGANESE	0.580	U
NICKEL	10.560	B
POTASSIUM	472.000	U
SELENIUM	2.120	U
SILVER	-3.380	B
SODIUM	82.430	B
THALLIUM	2.850	U
TIN	1.990	U
VANADIUM	5.170	U
ZINC	1.210	U

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBWTB11HGW0

Matrix: WATER **SDG Name:** CTO233-4

QC Batch ID: TB11HGW0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	RESULT	C
MERCURY	0.030	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** CTO233-4

Concentration Units: ug/L

SAMPLE: ICB

File: ATB11A Feb 11, 2003 15:37

Analyte	Result	C
ALUMINUM	9.96	U
ANTIMONY	1.19	U
ARSENIC	1.56	U
CALCIUM	8.35	B
CHROMIUM	0.42	U
COBALT	0.55	U
IRON	-7.71	B
LEAD	0.87	U
MAGNESIUM	5.73	U
SELENIUM	2.12	U
THALLIUM	2.85	U
TIN	1.99	U

SAMPLE: CCB

File: ATB11A Feb 11, 2003 16:17

Analyte	Result	C
ALUMINUM	-12.73	B
ANTIMONY	1.19	U
ARSENIC	1.56	U
CALCIUM	11.83	B
CHROMIUM	0.42	U
COBALT	0.55	U
IRON	-7.25	B
LEAD	0.87	U
MAGNESIUM	5.73	U
SELENIUM	2.12	U
THALLIUM	2.85	U
TIN	1.99	U

SAMPLE: CCB

File: ATB11A Feb 11, 2003 17:38

Analyte	Result	C
ALUMINUM	9.96	U
ANTIMONY	1.19	U
ARSENIC	1.56	U
CALCIUM	27.62	B
CHROMIUM	0.42	U
COBALT	0.55	U
IRON	6.27	U
LEAD	0.87	U
MAGNESIUM	12.68	B
SELENIUM	2.12	U
THALLIUM	3.38	B
TIN	1.99	U

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** CTO233-4

Concentration Units: ug/L

SAMPLE: CCB

File: ATB11A Feb 11, 2003 18:58

Analyte	Result	C
ALUMINUM	9.96	U
ANTIMONY	1.19	U
ARSENIC	1.56	U
CALCIUM	23.74	B
CHROMIUM	0.42	U
COBALT	0.55	U
IRON	-6.70	B
LEAD	0.87	U
MAGNESIUM	12.52	B
SELENIUM	2.12	U
THALLIUM	4.26	B
TIN	1.99	U

SAMPLE: CCB

File: ATB11A Feb 11, 2003 20:18

Analyte	Result	C
ALUMINUM	15.27	B
ANTIMONY	1.19	U
ARSENIC	1.56	U
CALCIUM	8.24	U
CHROMIUM	0.42	U
COBALT	0.55	U
IRON	-7.75	B
LEAD	0.87	U
MAGNESIUM	5.73	U
SELENIUM	2.12	U
THALLIUM	2.85	U
TIN	1.99	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** CTO233-4

Concentration Units: ug/L

SAMPLE: ICB

File: ATB12A Feb 12, 2003 14:41

Analyte	Result	C
ALUMINUM	9.96	U
ANTIMONY	1.19	U
ARSENIC	1.56	U
CALCIUM	8.24	U
CHROMIUM	0.42	U
COBALT	0.55	U
IRON	6.27	U
LEAD	0.87	U
MAGNESIUM	5.73	U
SELENIUM	2.12	U
THALLIUM	2.85	U
TIN	1.99	U

SAMPLE: CCB

File: ATB12A Feb 12, 2003 15:21

Analyte	Result	C
ALUMINUM	19.51	B
ANTIMONY	1.19	U
ARSENIC	1.56	U
CALCIUM	8.24	U
CHROMIUM	0.42	U
COBALT	0.55	U
IRON	6.27	U
LEAD	0.87	U
MAGNESIUM	5.73	U
SELENIUM	2.12	U
THALLIUM	2.85	U
TIN	1.99	U

SAMPLE: CCB

File: ATB12A Feb 12, 2003 16:41

Analyte	Result	C
ALUMINUM	46.83	B
ANTIMONY	1.19	U
ARSENIC	1.56	U
CALCIUM	8.24	U
CHROMIUM	0.42	U
COBALT	0.55	U
IRON	9.63	B
LEAD	0.87	U
MAGNESIUM	12.99	B
SELENIUM	2.12	U
THALLIUM	2.85	U
TIN	1.99	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** CTO233-4

Concentration Units: ug/L

SAMPLE: CCB

File: ATB12A Feb 12, 2003 18:04

Analyte	Result	C
ALUMINUM	58.94	B
ANTIMONY	1.19	U
ARSENIC	1.56	U
CALCIUM	-11.87	B
CHROMIUM	0.42	U
COBALT	0.55	U
IRON	6.27	U
LEAD	0.87	U
MAGNESIUM	12.85	B
SELENIUM	2.12	U
THALLIUM	2.85	U
TIN	1.99	U

SAMPLE: CCB

File: ATB12A Feb 12, 2003 19:24

Analyte	Result	C
ALUMINUM	73.63	B
ANTIMONY	1.19	U
ARSENIC	1.56	U
CALCIUM	-33.43	B
CHROMIUM	0.42	U
COBALT	0.55	U
IRON	6.27	U
LEAD	0.87	U
MAGNESIUM	5.73	U
SELENIUM	2.12	U
THALLIUM	2.85	U
TIN	1.99	U

SAMPLE: CCB

File: ATB12A Feb 12, 2003 20:44

Analyte	Result	C
ALUMINUM	97.96	B
ANTIMONY	1.19	U
ARSENIC	1.56	U
CALCIUM	-40.80	B
CHROMIUM	0.42	U
COBALT	0.55	U
IRON	6.27	U
LEAD	0.87	U
MAGNESIUM	5.73	U
SELENIUM	2.12	U
THALLIUM	2.85	U
TIN	1.99	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** CTO233-4

Concentration Units: ug/L

SAMPLE: CCB

File: ATB12A Feb 12, 2003 22:05

Analyte	Result	C
ALUMINUM	115.85	B
ANTIMONY	1.19	U
ARSENIC	1.56	U
CALCIUM	-47.05	B
CHROMIUM	0.42	U
COBALT	0.55	U
IRON	6.74	B
LEAD	0.87	U
MAGNESIUM	5.92	B
SELENIUM	2.12	U
THALLIUM	2.85	U
TIN	1.99	U

SAMPLE: CCB

File: ATB12A Feb 12, 2003 23:25

Analyte	Result	C
ALUMINUM	129.35	B
ANTIMONY	1.19	U
ARSENIC	-1.81	B
CALCIUM	-53.10	
CHROMIUM	0.44	B
COBALT	0.55	U
IRON	7.11	B
LEAD	0.87	U
MAGNESIUM	5.73	U
SELENIUM	2.12	U
THALLIUM	2.85	U
TIN	1.99	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** CTO233-4

Concentration Units: ug/L

SAMPLE: ICB

File: BTB06A Feb 06, 2003 14:00

Analyte	Result	C
ALUMINUM	19.25	U
BARIUM	0.40	U
BERYLLIUM	0.32	U
CADMIUM	2.59	U
CALCIUM	11.92	U
COPPER	2.37	U
IRON	4.73	U
MAGNESIUM	23.83	U
MANGANESE	-1.26	B
NICKEL	10.17	U
POTASSIUM	472.00	U
SILVER	2.45	U
VANADIUM	5.17	U
ZINC	1.21	U

SAMPLE: CCB

File: BTB06A Feb 06, 2003 14:34

Analyte	Result	C
ALUMINUM	19.25	U
BARIUM	0.40	U
BERYLLIUM	0.32	U
CADMIUM	2.59	U
CALCIUM	11.92	U
COPPER	2.37	U
IRON	5.45	B
MAGNESIUM	23.83	U
MANGANESE	-1.26	B
NICKEL	10.17	U
POTASSIUM	472.00	U
SILVER	-4.15	B
VANADIUM	5.17	U
ZINC	1.21	U

SAMPLE: CCB

File: BTB06A Feb 06, 2003 15:41

Analyte	Result	C
ALUMINUM	19.25	U
BARIUM	0.40	U
BERYLLIUM	0.32	B
CADMIUM	-4.28	B
CALCIUM	18.04	B
COPPER	2.37	U
IRON	7.34	B
MAGNESIUM	23.83	U
MANGANESE	-0.93	B
NICKEL	10.17	U
POTASSIUM	472.00	U
SILVER	2.45	U
VANADIUM	5.17	U
ZINC	1.21	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** CTO233-4

Concentration Units: ug/L

SAMPLE: CCB

File: BTB06A Feb 06, 2003 16:49

Analyte	Result	C
ALUMINUM	19.25	U
BARIUM	0.40	U
BERYLLIUM	0.32	U
CADMIUM	2.59	U
CALCIUM	12.69	B
COPPER	2.37	U
IRON	13.05	B
MAGNESIUM	23.83	U
MANGANESE	-1.27	B
NICKEL	10.17	U
POTASSIUM	472.00	U
SILVER	2.45	U
VANADIUM	5.17	U
ZINC	1.21	U

SAMPLE: CCB

File: BTB06A Feb 06, 2003 17:57

Analyte	Result	C
ALUMINUM	42.38	B
BARIUM	0.40	U
BERYLLIUM	0.32	U
CADMIUM	2.59	U
CALCIUM	47.36	B
COPPER	2.37	U
IRON	22.72	B
MAGNESIUM	54.64	
MANGANESE	-1.26	B
NICKEL	10.17	U
POTASSIUM	472.00	U
SILVER	2.45	U
VANADIUM	5.17	U
ZINC	1.21	U

SAMPLE: CCB

File: BTB06A Feb 06, 2003 19:04

Analyte	Result	C
ALUMINUM	19.25	U
BARIUM	0.40	U
BERYLLIUM	0.32	U
CADMIUM	2.59	U
CALCIUM	11.92	U
COPPER	2.37	U
IRON	8.66	B
MAGNESIUM	23.83	U
MANGANESE	-1.25	B
NICKEL	10.17	U
POTASSIUM	544.18	B
SILVER	2.45	U
VANADIUM	5.17	U
ZINC	1.31	B

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** CTO233-4

Concentration Units: ug/L

SAMPLE: CCB			**SAMPLE: CCB**		
File: BTB06A	Feb 06, 2003	20:12	File: BTB06A	Feb 06, 2003	21:20
Analyte	**Result**	**C**	**Analyte**	**Result**	**C**
ALUMINUM	19.25	U	ALUMINUM	19.25	U
BARIUM	0.40	U	BARIUM	0.40	U
BERYLLIUM	0.32	U	BERYLLIUM	0.32	U
CADMIUM	2.59	U	CADMIUM	-3.72	B
CALCIUM	20.04	B	CALCIUM	20.55	B
COPPER	2.37	U	COPPER	2.37	U
IRON	10.17	B	IRON	14.68	B
MAGNESIUM	23.83	U	MAGNESIUM	26.34	B
MANGANESE	-1.24	B	MANGANESE	-0.91	B
NICKEL	10.17	U	NICKEL	10.17	U
POTASSIUM	472.00	U	POTASSIUM	653.26	B
SILVER	2.45	U	SILVER	2.45	U
VANADIUM	5.17	U	VANADIUM	5.17	U
ZINC	1.31	B	ZINC	2.34	B

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** CTO233-4

Concentration Units: ug/L

SAMPLE: ICB

File: BTB10A Feb 10, 2003 15:33

Analyte	Result	C
ALUMINUM	19.25	U
BARIUM	0.40	U
BERYLLIUM	0.34	B
CADMIUM	2.59	U
CALCIUM	15.65	B
COPPER	2.37	U
IRON	6.51	B
MAGNESIUM	23.83	U
MANGANESE	0.58	U
NICKEL	10.17	U
POTASSIUM	472.00	U
SILVER	2.45	U
SODIUM	24.57	U
VANADIUM	5.17	U
ZINC	1.21	U

SAMPLE: CCB

File: BTB10A Feb 10, 2003 16:07

Analyte	Result	C
ALUMINUM	19.25	U
BARIUM	0.40	U
BERYLLIUM	0.32	U
CADMIUM	2.59	U
CALCIUM	11.92	U
COPPER	2.37	U
IRON	4.73	U
MAGNESIUM	23.83	U
MANGANESE	0.58	U
NICKEL	10.17	U
POTASSIUM	472.00	U
SILVER	2.45	U
SODIUM	24.57	U
VANADIUM	5.17	U
ZINC	1.21	U

SAMPLE: CCB

File: BTB10A Feb 10, 2003 17:15

Analyte	Result	C
ALUMINUM	32.82	B
BARIUM	0.40	U
BERYLLIUM	0.32	U
CADMIUM	2.59	U
CALCIUM	16.06	B
COPPER	2.37	U
IRON	13.21	B
MAGNESIUM	34.31	B
MANGANESE	0.58	U
NICKEL	10.17	U
POTASSIUM	472.00	U
SILVER	2.45	U
SODIUM	24.57	U
VANADIUM	5.17	U
ZINC	1.21	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** CTO233-4

Concentration Units: ug/L

SAMPLE: CCB

File: BTB10A Feb 10, 2003 18:22

Analyte	Result	C
ALUMINUM	19.25	U
BARIUM	0.40	U
BERYLLIUM	0.32	U
CADMIUM	2.59	U
CALCIUM	32.41	B
COPPER	2.37	U
IRON	11.16	B
MAGNESIUM	29.00	B
MANGANESE	0.58	U
NICKEL	10.76	B
POTASSIUM	472.00	U
SILVER	2.45	U
SODIUM	36.42	B
VANADIUM	5.17	U
ZINC	1.21	U

SAMPLE: CCB

File: BTB10A Feb 10, 2003 19:30

Analyte	Result	C
ALUMINUM	56.81	B
BARIUM	0.40	U
BERYLLIUM	0.34	B
CADMIUM	2.59	U
CALCIUM	70.39	
COPPER	2.37	U
IRON	27.63	B
MAGNESIUM	64.10	
MANGANESE	0.58	U
NICKEL	10.17	U
POTASSIUM	472.00	U
SILVER	2.45	U
SODIUM	24.57	U
VANADIUM	5.17	U
ZINC	1.21	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** CTO233-4

Concentration Units: ug/L

SAMPLE: ICB

File: BTB11A Feb 11, 2003 14:18

Analyte	Result	C
ALUMINUM	19.25	U
BARIUM	0.40	U
BERYLLIUM	0.32	U
CADMIUM	2.59	U
CALCIUM	11.92	U
COPPER	2.37	U
IRON	4.73	U
MAGNESIUM	23.83	U
MANGANESE	0.58	U
NICKEL	10.17	U
POTASSIUM	472.00	U
SILVER	2.45	U
SODIUM	24.57	U
VANADIUM	5.17	U
ZINC	1.21	U

SAMPLE: CCB

File: BTB11A Feb 11, 2003 14:52

Analyte	Result	C
ALUMINUM	26.63	B
BARIUM	0.40	U
BERYLLIUM	0.32	U
CADMIUM	2.59	U
CALCIUM	20.32	B
COPPER	2.37	U
IRON	9.32	B
MAGNESIUM	26.63	B
MANGANESE	0.58	U
NICKEL	10.17	U
POTASSIUM	472.00	U
SILVER	2.45	U
SODIUM	24.57	U
VANADIUM	5.17	U
ZINC	2.28	B

SAMPLE: CCB

File: BTB11A Feb 11, 2003 16:00

Analyte	Result	C
ALUMINUM	26.91	B
BARIUM	0.50	B
BERYLLIUM	0.32	U
CADMIUM	2.59	U
CALCIUM	40.73	B
COPPER	2.37	U
IRON	13.60	B
MAGNESIUM	23.83	U
MANGANESE	0.58	U
NICKEL	10.17	U
POTASSIUM	472.00	U
SILVER	3.97	B
SODIUM	24.57	U
VANADIUM	5.17	U
ZINC	1.91	B

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** CTO233-4

Concentration Units: ug/L

SAMPLE: CCB
File: BTB11A Feb 11, 2003 17:07

Analyte	Result	C
ALUMINUM	19.25	U
BARIUM	0.40	U
BERYLLIUM	0.32	B
CADMIUM	2.59	U
CALCIUM	28.48	B
COPPER	2.37	U
IRON	17.28	B
MAGNESIUM	23.83	U
MANGANESE	-0.66	B
NICKEL	-10.83	B
POTASSIUM	472.00	U
SILVER	-3.46	B
SODIUM	24.57	U
VANADIUM	5.17	U
ZINC	1.61	B

SAMPLE: CCB
File: BTB11A Feb 11, 2003 18:15

Analyte	Result	C
ALUMINUM	19.25	U
BARIUM	0.40	U
BERYLLIUM	0.32	U
CADMIUM	2.59	U
CALCIUM	11.92	U
COPPER	2.37	U
IRON	4.73	U
MAGNESIUM	23.83	U
MANGANESE	-0.66	B
NICKEL	10.17	U
POTASSIUM	472.00	U
SILVER	2.45	U
SODIUM	24.57	U
VANADIUM	5.17	U
ZINC	1.21	U

SAMPLE: CCB
File: BTB11A Feb 11, 2003 19:23

Analyte	Result	C
ALUMINUM	19.25	U
BARIUM	0.61	B
BERYLLIUM	0.32	U
CADMIUM	2.59	U
CALCIUM	17.55	B
COPPER	2.37	U
IRON	7.36	B
MAGNESIUM	23.83	U
MANGANESE	-0.65	B
NICKEL	10.17	U
POTASSIUM	472.00	U
SILVER	4.16	B
SODIUM	24.57	U
VANADIUM	5.17	U
ZINC	1.21	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** CTO233-4

Concentration Units: ug/L

SAMPLE: CCB

File: BTB11A Feb 11, 2003 20:30

Analyte	Result	C
ALUMINUM	19.25	U
BARIUM	0.51	B
BERYLLIUM	0.32	U
CADMIUM	2.59	U
CALCIUM	21.22	B
COPPER	2.37	U
IRON	10.94	B
MAGNESIUM	23.83	U
MANGANESE	0.58	U
NICKEL	10.17	U
POTASSIUM	472.00	U
SILVER	3.34	B
SODIUM	24.57	U
VANADIUM	5.17	U
ZINC	1.21	U

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** CTO233-4

Concentration Units: ug/L

SAMPLE: ICB

File: BTB13A Feb 13, 2003 14:24

Analyte	Result	C
ALUMINUM	19.25	U
BARIUM	0.40	U
BERYLLIUM	0.32	U
CADMIUM	2.59	U
CALCIUM	11.92	U
COPPER	2.37	U
IRON	4.73	U
MAGNESIUM	23.83	U
MANGANESE	0.58	U
NICKEL	10.17	U
POTASSIUM	472.00	U
SILVER	2.45	U
SODIUM	24.57	U
VANADIUM	5.17	U
ZINC	1.21	U

SAMPLE: CCB

File: BTB13A Feb 13, 2003 15:02

Analyte	Result	C
ALUMINUM	19.25	U
BARIUM	0.40	U
BERYLLIUM	0.32	U
CADMIUM	2.59	U
CALCIUM	11.92	B
COPPER	2.37	U
IRON	7.01	B
MAGNESIUM	23.83	U
MANGANESE	0.58	U
NICKEL	10.17	U
POTASSIUM	472.00	U
SILVER	-3.25	B
SODIUM	24.57	U
VANADIUM	5.17	U
ZINC	1.41	B

SAMPLE: CCB

File: BTB13A Feb 13, 2003 16:10

Analyte	Result	C
ALUMINUM	19.25	U
BARIUM	0.40	U
BERYLLIUM	0.32	U
CADMIUM	-2.86	B
CALCIUM	11.92	U
COPPER	2.37	U
IRON	9.18	B
MAGNESIUM	23.83	U
MANGANESE	0.58	U
NICKEL	10.17	U
POTASSIUM	472.00	U
SILVER	2.45	U
SODIUM	24.57	U
VANADIUM	5.17	U
ZINC	1.21	B

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** CTO233-4

Concentration Units: ug/L

SAMPLE: CCB

File: BTB13A Feb 13, 2003 17:18

Analyte	Result	C
ALUMINUM	19.25	U
BARIUM	0.40	U
BERYLLIUM	0.32	U
CADMIUM	2.59	U
CALCIUM	18.87	B
COPPER	2.37	U
IRON	11.90	B
MAGNESIUM	23.83	U
MANGANESE	0.65	B
NICKEL	10.17	U
POTASSIUM	472.00	U
SILVER	-5.03	B
SODIUM	24.57	U
VANADIUM	5.17	U
ZINC	1.21	U

SAMPLE: CCB

File: BTB13A Feb 13, 2003 18:25

Analyte	Result	C
ALUMINUM	31.43	B
BARIUM	0.40	U
BERYLLIUM	0.33	B
CADMIUM	3.03	B
CALCIUM	37.84	B
COPPER	2.37	U
IRON	16.74	B
MAGNESIUM	23.83	U
MANGANESE	0.58	U
NICKEL	10.17	U
POTASSIUM	472.00	U
SILVER	-2.60	B
SODIUM	28.73	B
VANADIUM	5.17	U
ZINC	1.21	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** CTO233-4

Concentration Units: ug/L

SAMPLE: ICB

File: BTB25A Feb 25, 2003 14:25

Analyte	Result	C
ALUMINUM	19.25	U
BARIUM	0.40	U
BERYLLIUM	0.32	U
CADMIUM	2.59	U
CALCIUM	11.92	U
COPPER	2.37	U
IRON	4.73	U
MAGNESIUM	23.83	U
MANGANESE	0.58	U
NICKEL	10.17	U
SILVER	2.45	U
VANADIUM	5.17	U
ZINC	1.21	U

SAMPLE: CCB

File: BTB25A Feb 25, 2003 14:59

Analyte	Result	C
ALUMINUM	19.25	U
BARIUM	0.40	U
BERYLLIUM	-0.33	B
CADMIUM	2.59	U
CALCIUM	11.92	U
COPPER	2.37	U
IRON	4.73	U
MAGNESIUM	23.83	U
MANGANESE	0.58	U
NICKEL	10.17	U
SILVER	2.45	U
VANADIUM	5.17	U
ZINC	1.21	U

SAMPLE: CCB

File: BTB25A Feb 25, 2003 16:07

Analyte	Result	C
ALUMINUM	23.56	B
BARIUM	0.40	U
BERYLLIUM	0.32	U
CADMIUM	2.59	U
CALCIUM	11.92	U
COPPER	2.37	U
IRON	5.26	B
MAGNESIUM	23.83	U
MANGANESE	0.58	U
NICKEL	10.17	U
SILVER	2.45	U
VANADIUM	5.17	U
ZINC	1.21	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** CTO233-4

Concentration Units: ug/L

SAMPLE: CCB

File: BTB25A Feb 25, 2003 17:16

Analyte	Result	C
ALUMINUM	19.25	U
BARIUM	0.40	U
BERYLLIUM	0.32	U
CADMIUM	2.59	U
CALCIUM	13.60	B
COPPER	2.37	U
IRON	6.14	B
MAGNESIUM	24.48	B
MANGANESE	0.58	U
NICKEL	10.17	U
SILVER	2.45	U
VANADIUM	5.17	U
ZINC	1.21	U

SAMPLE: CCB

File: BTB25A Feb 25, 2003 18:25

Analyte	Result	C
ALUMINUM	26.14	B
BARIUM	0.40	U
BERYLLIUM	0.32	U
CADMIUM	-3.47	B
CALCIUM	11.92	U
COPPER	2.37	U
IRON	10.26	B
MAGNESIUM	36.79	B
MANGANESE	0.58	U
NICKEL	10.17	U
SILVER	2.45	U
VANADIUM	5.17	U
ZINC	1.28	B

SAMPLE: CCB

File: BTB25A Feb 25, 2003 19:32

Analyte	Result	C
ALUMINUM	19.25	U
BARIUM	0.40	U
BERYLLIUM	-0.32	B
CADMIUM	2.59	U
CALCIUM	11.92	U
COPPER	2.37	U
IRON	4.73	U
MAGNESIUM	24.32	B
MANGANESE	0.58	U
NICKEL	10.17	U
SILVER	2.70	B
VANADIUM	5.17	U
ZINC	1.21	U

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** CTO233-4

Concentration Units: ug/L

SAMPLE: CCB

File: BTB25A Feb 25, 2003 20:23

Analyte	Result	C
ALUMINUM	19.25	U
BARIUM	0.40	U
BERYLLIUM	-0.32	B
CADMIUM	2.59	U
CALCIUM	11.92	U
COPPER	2.37	U
IRON	4.73	U
MAGNESIUM	23.83	U
MANGANESE	0.58	U
NICKEL	10.17	U
SILVER	2.45	U
VANADIUM	5.17	U
ZINC	1.21	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** CTO233-4

Concentration Units: ug/L

SAMPLE: ICB

File: DTB11A Feb 11, 2003 15:33

Analyte	Result	C
MERCURY	-0.07	B

SAMPLE: CCB

File: DTB11A Feb 11, 2003 15:46

Analyte	Result	C
MERCURY	-0.04	B

SAMPLE: CCB

File: DTB11A Feb 11, 2003 16:09

Analyte	Result	C
MERCURY	-0.04	B

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** CTO233-4

Concentration Units: ug/L

SAMPLE: ICB

File: DTB11C Feb 11, 2003 17:35

Analyte	Result	C
MERCURY	0.03	B

SAMPLE: CCB

File: DTB11C Feb 11, 2003 17:48

Analyte	Result	C
MERCURY	0.06	B

SAMPLE: CCB

File: DTB11C Feb 11, 2003 18:42

Analyte	Result	C
MERCURY	0.07	B

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** CTO233-4

Concentration Units: ug/L

SAMPLE: CCB

File: DTB11C Feb 11, 2003 19:36

Analyte	Result	C
MERCURY	0.10	B

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Quality Control Report

Method Blank Summary Report

Company: Tetra Tech NUS, Inc.

Sdg: CTO233-4

Parameter: Chloride

QC Batch Id: TC03WL2
Anal Method: EPA 300.0
Prep Method: N/A
Anal Date: 02/27/03
Prep Date: N/A
Blank Result: J0.209mg/L
Pql: 2.0mg/L

Associated Samples:

Client Sample ID	Lab Sample ID	Analysis Date
LABQC	LCS	02/27/03
LABQC	LCSD	02/27/03
LABQC	MBLANK	02/27/03
S9MW-5-0103	WT0246-1	02/27/03
S9MW-12-0103	WT0246-2	02/27/03
S9MW-12-0103	WT0246-2 DUP	02/27/03
S9MW-12-0103	WT0246-2 MS	02/27/03
S9MW-14-0103	WT0246-3	02/27/03
S9MW-15-0103	WT0246-4	02/27/03
S9MW-21-0103	WT0246-5	02/27/03

QC Batch Id: TC03WL5
Anal Method: EPA 300.0
Prep Method: N/A
Anal Date: 02/28/03
Prep Date: N/A
Blank Result: J0.2074mg/L
Pql: 2.0mg/L

Associated Samples:

Client Sample ID	Lab Sample ID	Analysis Date
LABQC	LCS	02/28/03
LABQC	LCSD	02/28/03
LABQC	MBLANK	02/28/03
S9MW-22-0103	WT0246-13	02/28/03
S9MW-24-0103	WT0246-6	02/28/03
S9MW-25-0103	WT0246-7	02/28/03
0103-DUP-06	WT0246-8	02/28/03
0103-DUP-06	WT0246-8 DUP	02/28/03

Parameter: Sulfate

QC Batch Id: TC03WL3
Anal Method: EPA 300.0
Prep Method: N/A
Anal Date: 02/27/03
Prep Date: N/A
Blank Result: U1.0mg/L
Pql: 1.0mg/L

Associated Samples:

Client Sample ID	Lab Sample ID	Analysis Date

Quality Control Report

Method Blank Summary Report (Cont.)

Company: Tetra Tech NUS, Inc.

Sdg: CTO233-4

Parameter: Sulfate

QC Batch Id: TC03WL3
Anal Method: EPA 300.0 | Anal Date: 02/27/03 | Blank Result: U1.0mg/L
Prep Method: N/A | Prep Date: N/A | Pql: 1.0mg/L

Client Sample ID	Lab Sample ID	Analysis Date
LABQC	LCS	02/27/03
LABQC	LCSD	02/27/03
LABQC	MBLANK	02/27/03
S9MW-5-0103	WT0246-1	02/27/03
S9MW-12-0103	WT0246-2	02/27/03
S9MW-12-0103	WT0246-2 DUP	02/27/03
S9MW-12-0103	WT0246-2 MS	02/27/03
S9MW-14-0103	WT0246-3	02/27/03
S9MW-15-0103	WT0246-4	02/27/03
S9MW-21-0103	WT0246-5	02/27/03

QC Batch Id: TC03WL6
Anal Method: EPA 300.0 | Anal Date: 02/28/03 | Blank Result: U1.0mg/L
Prep Method: N/A | Prep Date: N/A | Pql: 1.0mg/L
Associated Samples:

Client Sample ID	Lab Sample ID	Analysis Date
LABQC	LCS	02/28/03
LABQC	LCSD	02/28/03
LABQC	MBLANK	02/28/03
S9MW-22-0103	WT0246-13	02/28/03
S9MW-24-0103	WT0246-6	02/28/03
S9MW-25-0103	WT0246-7	02/28/03
0103-DUP-06	WT0246-8	02/28/03
0103-DUP-06	WT0246-8 DUP	02/28/03

Parameter: Sulfide-Iodometric

QC Batch Id: TB10WL12
Anal Method: EPA 376.1 | Anal Date: 02/06/03 | Blank Result: U1.0mg/L
Prep Method: N/A | Prep Date: N/A | Pql: 1.0mg/L
Associated Samples:

Client Sample ID	Lab Sample ID	Analysis Date
LABQC	LCS	02/06/03

Quality Control Report

Method Blank Summary Report (Cont.)

Company: Tetra Tech NUS, Inc.

Sdg: CTO233-4

Parameter: Sulfide-Iodometric

QC Batch Id: TB10WL12
Anal Method: EPA 376.1 | Anal Date: 02/06/03 | Blank Result: U1.0mg/L
Prep Method: N/A | Prep Date: N/A | Pql: 1.0mg/L

Client Sample ID	Lab Sample ID	Analysis Date
LABQC	LCSD	02/06/03
LABQC	MBLANK	02/06/03
S9MW-5-0103	WT0246-1	02/06/03
S9MW-22-0103	WT0246-13	02/06/03
S9MW-12-0103	WT0246-2	02/06/03
S9MW-14-0103	WT0246-3	02/06/03
S9MW-15-0103	WT0246-4	02/06/03
S9MW-21-0103	WT0246-5	02/06/03
S9MW-24-0103	WT0246-6	02/06/03
S9MW-25-0103	WT0246-7	02/06/03
0103-DUP-06	WT0246-8	02/06/03

Parameter: Total Organic Carbon

QC Batch Id: TB07WL6
Anal Method: EPA 415.1 | Anal Date: 02/06/03 | Blank Result: J0.3636mg/L
Prep Method: N/A | Prep Date: N/A | Pql: 1.0mg/L
Associated Samples:

Client Sample ID	Lab Sample ID	Analysis Date
LABQC	LCS	02/06/03
LABQC	LCSD	02/06/03
LABQC	MBLANK	02/06/03
S9MW-5-0103	WT0246-1	02/06/03
S9MW-22-0103	WT0246-13	02/06/03
S9MW-12-0103	WT0246-2	02/06/03
S9MW-14-0103	WT0246-3	02/06/03
S9MW-15-0103	WT0246-4	02/06/03
S9MW-21-0103	WT0246-5	02/06/03
S9MW-24-0103	WT0246-6	02/06/03
S9MW-25-0103	WT0246-7	02/06/03
S9MW-25-0103	WT0246-7 DUP	02/06/03
0103-DUP-06	WT0246-8	02/06/03
0103-DUP-06	WT0246-8 MS	02/06/03

INSTRUMENT DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** A

Instrument Name: TJA TRACE ICP **Date:** 1/2/03

Concentration Units: ug/L

Analyte	CRDL	IDL	M
ANTIMONY	8.0	1.19	P
ARSENIC	8.0	1.56	P
CHROMIUM	15	0.42	P
COBALT	30	0.55	P
LEAD	5.0	0.87	P
SELENIUM	10	2.12	P
THALLIUM	15	2.85	P
TIN	100	1.99	P

INSTRUMENT DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** B

Instrument Name: TJA 61 ICP **Date:** 1/2/03

Concentration Units: ug/L

Analyte	CRDL	IDL	M
ALUMINUM	300	19.25	P
BARIUM	5.0	0.40	P
BERYLLIUM	5.0	0.32	P
CADMIUM	10	2.59	P
CALCIUM	50	11.92	P
COPPER	25	2.37	P
IRON	100	4.73	P
MAGNESIUM	50	23.83	P
MANGANESE	5.0	0.58	P
NICKEL	40	10.17	P
POTASSIUM	1000	472.00	P
SILVER	15	2.45	P
SODIUM	1000	24.57	P
VANADIUM	25	5.17	P
ZINC	25	1.21	P

INSTRUMENT DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** D

Instrument Name: LEEMAN MERCURY ANALYZER **Date:** 1/3/03

Concentration Units: ug/L

Analyte	CRDL	IDL	M
MERCURY	0.20	0.03	CV

ICP LINEAR RANGES

Lab Name: Katahdin Analytical Services **Instrument Code:** A

Instrument Name: TJA TRACE ICP **Date:** 1/17/03

Concentration Units: ug/L

Analyte	Integration Time (sec)	Linear Range	M
ALUMINUM	15.00	500000	P
ANTIMONY	15.00	10000	P
ARSENIC	15.00	10000	P
BARIUM	15.00	30000	P
BERYLLIUM	15.00	5000	P
CADMIUM	15.00	10000	P
CALCIUM	15.00	500000	P
CHROMIUM	15.00	10000	P
COBALT	15.00	10000	P
COPPER	15.00	10000	P
IRON	15.00	250000	P
LEAD	15.00	10000	P
MAGNESIUM	15.00	500000	P
MANGANESE	15.00	10000	P
NICKEL	15.00	10000	P
POTASSIUM	15.00	30000	P
SELENIUM	15.00	10000	P
SILVER	15.00	1000	P
SODIUM	15.00	200000	P
THALLIUM	15.00	10000	P
TIN	15.00	10000	P
VANADIUM	15.00	10000	P
ZINC	15.00	10000	P

ICP LINEAR RANGES

Lab Name: Katahdin Analytical Services **Instrument Code:** B

Instrument Name: TJA 61 ICP **Date:** 1/17/03

Concentration Units: ug/L

Analyte	Integration Time (sec)	Linear Range	M
ALUMINUM	8.00	500000	P
ANTIMONY	8.00	10000	P
ARSENIC	8.00	10000	P
BARIUM	8.00	30000	P
BERYLLIUM	8.00	10000	P
CADMIUM	8.00	10000	P
CALCIUM	8.00	500000	P
CHROMIUM	8.00	10000	P
COBALT	8.00	10000	P
COPPER	8.00	10000	P
IRON	8.00	250000	P
LEAD	8.00	10000	P
MAGNESIUM	8.00	500000	P
MANGANESE	8.00	10000	P
NICKEL	8.00	10000	P
POTASSIUM	8.00	500000	P
SELENIUM	8.00	10000	P
SILVER	8.00	1000	P
SODIUM	8.00	500000	P
VANADIUM	8.00	10000	P
ZINC	8.00	10000	P

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** TB05ICW1

Matrix: WATER **SDG Name:** CTO233-4

Method: P **Prep Date:** 02/05/2003

Client ID	Lab Sample ID	Initial (L)	Final (L)
LCSWTB05ICW1	LCSWTB05ICW1	0.05	0.05
PBWTB05ICW1	PBWTB05ICW1	0.05	0.05
FC-MW-06-0103	WT0233-001	0.05	0.05
FC-MW-20R-0103	WT0233-002	0.05	0.05
FC-MW-05-0103	WT0233-003	0.05	0.05
I8MW8-1-0103	WT0233-004	0.05	0.05
I8MW8-1-0103P	WT0233-004P	0.05	0.05
I8MW8-1-0103S	WT0233-004S	0.05	0.05
I8MW8-2-0103	WT0233-005	0.05	0.05
S1MW-7-0103	WT0233-006	0.05	0.05
0103-DUP-01	WT0233-007	0.05	0.05

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** TB07ICW0

Matrix: WATER **SDG Name:** CTO233-4

Method: P **Prep Date:** 02/07/2003

Client ID	Lab Sample ID	Initial (L)	Final (L)
LC2WTB07ICW0	LC2WTB07ICW0	0.05	0.05
LCSWTB07ICW0	LCSWTB07ICW0	0.05	0.05
PBWTB07ICW0	PBWTB07ICW0	0.05	0.05
S1SW-1-0103	WT0246-010	0.05	0.05
S1SW-2-0103	WT0246-011	0.05	0.05
S1SW-3-0103	WT0246-012	0.05	0.05

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** TB11HGW0

Matrix: WATER **SDG Name:** CTO233-4

Method: CV **Prep Date:** 02/11/2003

Client ID	Lab Sample ID	Initial (L)	Final (L)
LC2WTB11HGW0	LC2WTB11HGW0	0.1	0.1
LCSWTB11HGW0	LCSWTB11HGW0	0.1	0.1
PBWTB11HGW0	PBWTB11HGW0	0.1	0.1
I8MW8-1-0103	WT0233-004	0.1	0.1
I8MW8-2-0103	WT0233-005	0.1	0.1
S1MW-7-0103	WT0233-006	0.1	0.1
0103-DUP-01	WT0233-007	0.1	0.1
S1SW-1-0103	WT0246-010	0.1	0.1
S1SW-2-0103	WT0246-011	0.1	0.1
S1SW-3-0103	WT0246-012	0.1	0.1

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** CTO233-4

Instrument ID: TJA TRACE ICP **File Name:** ATB11A

Date: 2/11/03 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements				
S0		1	14:53	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn
S1		1	15:00	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn
AL IEC		1	15:09	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn
FE IEC		1	15:16	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn
IEC		1	15:23	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn
ICV		1	15:30	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn
ICB		1	15:37	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn
PQL		1	15:44	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn
CRI		1	15:51	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn
ICSA		1	15:57	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn
ICSAB		1	16:04	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn
CCV		1	16:11	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn
CCB		1	16:17	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn
ZZZZZZ		1	16:24					
ZZZZZZ		1	16:31					
ZZZZZZ		1	16:37					
ZZZZZZ		1	16:44					
ZZZZZZ		1	16:51					
ZZZZZZ		5	16:57					
ZZZZZZ		1	17:04					
ZZZZZZ		1	17:11					
ZZZZZZ		1	17:17					
ZZZZZZ		1	17:24					
CCV		1	17:31	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn
CCB		1	17:38	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn
ZZZZZZ		1	17:44					
ZZZZZZ		1	17:51					
ZZZZZZ		1	17:58					
ZZZZZZ		1	18:04					
ZZZZZZ		1	18:11					
ZZZZZZ		1	18:18					
ZZZZZZ		1	18:24					
PBWTB07ICW0		1	18:31	Sb As	Cr Co	Pb	Se	Tl Sn
LCSWTB07ICW0		1	18:38	Sb As	Cr Co	Pb	Se	Tl Sn
LC2WTB07ICW0		1	18:44	Sb As	Cr Co	Pb	Se	Tl Sn
CCV		1	18:51	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn
CCB		1	18:58	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn
ZZZZZZ		1	19:04					
ZZZZZZ		1	19:11					
ZZZZZZ		1	19:18					
ZZZZZZ		1	19:25					
ZZZZZZ		1	19:31					
ZZZZZZ		1	19:38					
ZZZZZZ		1	19:45					
CRI		1	19:51	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn
ICSA		1	19:58	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn
ICSAB		1	20:05	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn
CCV		1	20:11	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn
CCB		1	20:18	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** CTO233-4

Instrument ID: TJA TRACE ICP **File Name:** ATB12A

Date: 2/12/03 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements						
S0		1	13:58	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn		
S1		1	14:04	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn		
AL IEC		1	14:14	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn		
FE IEC		1	14:21	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn		
IEC		1	14:27	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn		
ICV		1	14:34	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn		
ICB		1	14:41	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn		
PQL		1	14:48	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn		
CRI		1	14:54	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn		
ICSA		1	15:01	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn		
ICSAB		1	15:08	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn		
CCV		1	15:14	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn		
CCB		1	15:21	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn		
ZZZZZZ		1	15:28							
ZZZZZZ		1	15:34							
ZZZZZZ		1	15:41							
ZZZZZZ		1	15:48							
ZZZZZZ		5	15:54							
ZZZZZZ		1	16:01							
ZZZZZZ		1	16:08							
ZZZZZZ		1	16:14							
ZZZZZZ		1	16:21							
ZZZZZZ		1	16:28							
CCV		1	16:34	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn		
CCB		1	16:41	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn		
ZZZZZZ		1	16:48							
ZZZZZZ		1	16:55							
ZZZZZZ		1	17:01							
ZZZZZZ		1	17:08							
ZZZZZZ		1	17:17							
ZZZZZZ		1	17:24							
ZZZZZZ		1	17:31							
PBWTB05ICW1		1	17:37	Sb As	Cr Co	Pb	Se	Tl Sn		
LCSWTB05ICW1		1	17:44	Sb As	Cr Co	Pb	Se	Tl Sn		
WT0233-001	FC-MW-06-0103	1	17:51			Pb				
CCV		1	17:57	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn		
CCB		1	18:04	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn		
WT0233-002	FC-MW-20R-0103	1	18:11			Pb				
WT0233-003	FC-MW-05-0103	1	18:17			Pb				
WT0233-004	I8MW8-1-0103	3	18:24	Sb As	Cr Co	Pb	Se	Tl Sn		
WT0233-004L	I8MW8-1-0103L	15	18:31	Sb As	Cr Co	Pb	Se	Tl Sn		
WT0233-004P	I8MW8-1-0103P	3	18:37	Sb As	Cr Co	Pb	Se	Tl Sn		
WT0233-004S	I8MW8-1-0103S	3	18:44	Sb As	Cr Co	Pb	Se	Tl Sn		
WT0233-005	I8MW8-2-0103	3	18:51	Sb As	Cr Co	Pb	Se	Tl Sn		
CRI		1	18:57	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn		
ICSA		1	19:04	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn		
ICSAB		1	19:11	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn		
CCV		1	19:17	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn		
CCB		1	19:24	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn		
WT0233-006	S1MW-7-0103	3	19:31	Sb As	Cr Co	Pb	Se	Tl Sn		

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** CTO233-4

Instrument ID: TJA TRACE ICP **File Name:** ATB12A

Date: 2/12/03 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements				
WT0233-007	0103-DUP-01	3	19:38	Sb As	Cr Co	Pb	Se	Tl Sn
WT0246-010	S1SW-1-0103	5	19:44	Sb As	Cr Co	Pb	Se	Tl Sn
WT0246-011	S1SW-2-0103	3	19:51	Sb As	Cr Co	Pb	Se	Tl Sn
WT0246-012	S1SW-3-0103	3	19:58	Sb As	Cr Co	Pb	Se	Tl Sn
ZZZZZZ		1	20:04					
ZZZZZZ		1	20:11					
ZZZZZZ		1	20:18					
ZZZZZZ		1	20:24					
ZZZZZZ		1	20:31					
CCV		1	20:38	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn
CCB		1	20:44	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn
ZZZZZZ		1	20:51					
ZZZZZZ		1	20:58					
ZZZZZZ		1	21:04					
ZZZZZZ		1	21:11					
ZZZZZZ		1	21:18					
ZZZZZZ		1	21:25					
ZZZZZZ		1	21:31					
ZZZZZZ		1	21:38					
ZZZZZZ		1	21:45					
ZZZZZZ		1	21:51					
CCV		1	21:58	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn
CCB		1	22:05	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn
ZZZZZZ		1	22:11					
ZZZZZZ		1	22:18					
ZZZZZZ		1	22:25					
ZZZZZZ		1	22:31					
ZZZZZZ		5	22:38					
ZZZZZZ		1	22:45					
ZZZZZZ		1	22:52					
CRI		1	22:58	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn
ICSA		1	23:05	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn
ICSAB		1	23:12	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn
CCV		1	23:18	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn
CCB		1	23:25	Al Sb As	Ca Cr Co	Fe Pb Mg	Se	Tl Sn

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** CTO233-4

Instrument ID: TJA 61 ICP **File Name:** BTB06A

Date: 2/6/03 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements								
S0		1	13:26	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	V	Zn
S1		1	13:32	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	V	Zn
AL_IEC		1	13:37	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	V	Zn
FE_IEC		1	13:46	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	V	Zn
ICV		1	13:54	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	V	Zn
ICB		1	14:00	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	V	Zn
PQL		1	14:05	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	V	Zn
CRI		1	14:11	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	V	Zn
ICSA		1	14:17	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	V	Zn
ICSAB		1	14:22	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	V	Zn
CCV		1	14:28	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	V	Zn
CCB		1	14:34	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	V	Zn
ZZZZZZ		1	14:39														
ZZZZZZ		1	14:45														
ZZZZZZ		1	14:51														
ZZZZZZ		1	14:56														
ZZZZZZ		1	15:02														
ZZZZZZ		1	15:07														
ZZZZZZ		5	15:13														
ZZZZZZ		1	15:19														
ZZZZZZ		1	15:24														
ZZZZZZ		1	15:30														
CCV		1	15:36	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	V	Zn
CCB		1	15:41	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	V	Zn
ZZZZZZ		1	15:47														
ZZZZZZ		1	15:53														
ZZZZZZ		1	15:58														
ZZZZZZ		1	16:04														
ZZZZZZ		1	16:09														
ZZZZZZ		1	16:15														
ZZZZZZ		1	16:21														
ZZZZZZ		1	16:26														
ZZZZZZ		1	16:32														
ZZZZZZ		1	16:38														
CCV		1	16:43	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	V	Zn
CCB		1	16:49	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	V	Zn
ZZZZZZ		1	16:55														
ZZZZZZ		5	17:00														
ZZZZZZ		1	17:06														
ZZZZZZ		1	17:11														
ZZZZZZ		1	17:17														
ZZZZZZ		1	17:23														
ZZZZZZ		1	17:28														
CRI		1	17:34	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	V	Zn
ICSA		1	17:40	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	V	Zn
ICSAB		1	17:45	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	V	Zn
CCV		1	17:51	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	V	Zn
CCB		1	17:57	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	V	Zn
ZZZZZZ		1	18:02														
ZZZZZZ		1	18:08														

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** CTO233-4

Instrument ID: TJA 61 ICP **File Name:** BTB06A

Date: 2/6/03 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements								
ZZZZZZ		1	18:13									
ZZZZZZ		1	18:19									
ZZZZZZ		1	18:25									
ZZZZZZ		1	18:30									
ZZZZZZ		1	18:36									
ZZZZZZ		1	18:42									
PBWTB05ICW1		1	18:47	Al	Ba	Be	Cd	Ca	Cu	Fe	Mn	Ni	Ag	V	Zn
LCSWTB05ICW1		1	18:53	Al	Ba	Be	Cd	Ca	Cu	Fe	Mn	Ni	Ag	V	Zn
CCV		1	18:59	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	V	Zn
CCB		1	19:04	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	V	Zn
ZZZZZZ		5	19:10														
ZZZZZZ		5	19:15														
ZZZZZZ		5	19:21														
WT0233-004	I8MW8-1-0103	5	19:27	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	V	Zn
WT0233-004L	I8MW8-1-0103L	25	19:32	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	V	Zn
WT0233-004P	I8MW8-1-0103P	5	19:38	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	V	Zn
WT0233-004S	I8MW8-1-0103S	5	19:44	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	V	Zn
WT0233-005	I8MW8-2-0103	5	19:49	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	V	Zn
WT0233-006	S1MW-7-0103	5	19:55	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	V	Zn
WT0233-007	0103-DUP-01	5	20:01	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	V	Zn
CCV		1	20:06	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	V	Zn
CCB		1	20:12	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	V	Zn
ZZZZZZ		1	20:17														
ZZZZZZ		1	20:23														
ZZZZZZ		1	20:29														
ZZZZZZ		1	20:34														
ZZZZZZ		1	20:40														
ZZZZZZ		1	20:46														
ZZZZZZ		1	20:51														
CRI		1	20:57	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	V	Zn
ICSA		1	21:03	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	V	Zn
ICSAB		1	21:08	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	V	Zn
CCV		1	21:14	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	V	Zn
CCB		1	21:20	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	V	Zn

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** CTO233-4

Instrument ID: TJA 61 ICP **File Name:** BTB10A

Date: 2/10/03 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements								
S0		1	15:02	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn
S1		1	15:08	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn
AL_IEC		1	15:16	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn
FE_IEC		1	15:22	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn
ICV		1	15:27	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn
ICB		1	15:33	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn
PQL		1	15:39	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn
CRI		1	15:44	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn
ICSA		1	15:50	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn
ICSAB		1	15:56	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn
CCV		1	16:01	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn
CCB		1	16:07	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn
ZZZZZZ		1	16:13									
ZZZZZZ		1	16:18									
ZZZZZZ		5	16:24									
PBWTB07ICW0		1	16:30	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn
LCSWTB07ICW0		1	16:35	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn
LC2WTB07ICW0		1	16:41	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn
ZZZZZZ		1	16:47									
ZZZZZZ		1	16:52									
ZZZZZZ		1	16:58									
ZZZZZZ		1	17:03									
CCV		1	17:09	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn
CCB		1	17:15	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn
ZZZZZZ		5	17:20									
ZZZZZZ		1	17:26									
ZZZZZZ		1	17:32									
ZZZZZZ		1	17:37									
ZZZZZZ		1	17:43									
ZZZZZZ		1	17:49									
PBWTB05ICW1		1	17:54								Mg	
LCSWTB05ICW1		1	18:00								Mg	
ZZZZZZ		1	18:05									
ZZZZZZ		5	18:11									
CCV		1	18:17	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn
CCB		1	18:22	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn
ZZZZZZ		1	18:28									
ZZZZZZ		1	18:34									
ZZZZZZ		1	18:39									
ZZZZZZ		1	18:45									
ZZZZZZ		1	18:51									
ZZZZZZ		1	18:56									
ZZZZZZ		1	19:02									
CRI		1	19:07	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn
ICSA		1	19:13	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn
ICSAB		1	19:19	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn
CCV		1	19:24	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn
CCB		1	19:30	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn

Lab Sample ID	Client ID	D.F.	Time	Elements								
S0		1	15:02	Ni	K	Ag	Na		V	Zn		
S1		1	15:08	Ni	K	Ag	Na		V	Zn		
AL_IEC		1	15:16	Ni	K	Ag	Na		V	Zn		
FE_IEC		1	15:22	Ni	K	Ag	Na		V	Zn		
ICV		1	15:27	Ni	K	Ag	Na		V	Zn		
ICB		1	15:33	Ni	K	Ag	Na		V	Zn		
PQL		1	15:39	Ni	K	Ag	Na		V	Zn		
CRI		1	15:44	Ni	K	Ag	Na		V	Zn		
ICSA		1	15:50	Ni	K	Ag	Na		V	Zn		
ICSAB		1	15:56	Ni	K	Ag	Na		V	Zn		
CCV		1	16:01	Ni	K	Ag	Na		V	Zn		
CCB		1	16:07	Ni	K	Ag	Na		V	Zn		
ZZZZZZ		1	16:13									
ZZZZZZ		1	16:18									
ZZZZZZ		5	16:24									
PBWTB07ICW0		1	16:30	Ni	K	Ag	Na		V	Zn		
LCSWTB07ICW0		1	16:35	Ni	K	Ag	Na		V	Zn		
LC2WTB07ICW0		1	16:41	Ni	K	Ag	Na		V	Zn		
ZZZZZZ		1	16:47									
ZZZZZZ		1	16:52									
ZZZZZZ		1	16:58									
ZZZZZZ		1	17:03									
CCV		1	17:09	Ni	K	Ag	Na		V	Zn		
CCB		1	17:15	Ni	K	Ag	Na		V	Zn		
ZZZZZZ		5	17:20									
ZZZZZZ		1	17:26									
ZZZZZZ		1	17:32									
ZZZZZZ		1	17:37									
ZZZZZZ		1	17:43									
ZZZZZZ		1	17:49									
PBWTB05ICW1		1	17:54		K		Na					
LCSWTB05ICW1		1	18:00		K		Na					
ZZZZZZ		1	18:05									
ZZZZZZ		5	18:11									
CCV		1	18:17	Ni	K	Ag	Na		V	Zn		
CCB		1	18:22	Ni	K	Ag	Na		V	Zn		
ZZZZZZ		1	18:28									
ZZZZZZ		1	18:34									
ZZZZZZ		1	18:39									
ZZZZZZ		1	18:45									
ZZZZZZ		1	18:51									
ZZZZZZ		1	18:56									
ZZZZZZ		1	19:02									
CRI		1	19:07	Ni	K	Ag	Na		V	Zn		
ICSA		1	19:13	Ni	K	Ag	Na		V	Zn		
ICSAB		1	19:19	Ni	K	Ag	Na		V	Zn		
CCV		1	19:24	Ni	K	Ag	Na		V	Zn		
CCB		1	19:30	Ni	K	Ag	Na		V	Zn		

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** CTO233-4

Instrument ID: TJA 61 ICP **File Name:** BTB11A

Date: 2/11/03 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements									
S0		1	13:45	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	Na	V	Zn
S1		1	13:50	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	Na	V	Zn
AL_IEC		1	13:56	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	Na	V	Zn
FE_IEC		1	14:04	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	Na	V	Zn
ICV		1	14:12	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	Na	V	Zn
ICB		1	14:18	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	Na	V	Zn
PQL		1	14:24	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	Na	V	Zn
CRI		1	14:30	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	Na	V	Zn
ICSA		1	14:35	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	Na	V	Zn
ICSAB		1	14:41	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	Na	V	Zn
CCV		1	14:46	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	Na	V	Zn
CCB		1	14:52	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	Na	V	Zn
ZZZZZZ		1	14:58															
ZZZZZZ		1	15:03															
ZZZZZZ		1	15:09															
ZZZZZZ		5	15:15															
ZZZZZZ		1	15:20															
ZZZZZZ		1	15:26															
ZZZZZZ		1	15:32															
ZZZZZZ		1	15:37															
ZZZZZZ		1	15:43															
ZZZZZZ		1	15:48															
CCV		1	15:54	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	Na	V	Zn
CCB		1	16:00	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	Na	V	Zn
ZZZZZZ		5	16:05															
ZZZZZZ		1	16:11															
ZZZZZZ		1	16:17															
ZZZZZZ		1	16:22															
ZZZZZZ		1	16:28															
ZZZZZZ		1	16:34															
ZZZZZZ		2	16:39															
CRI		1	16:45	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	Na	V	Zn
ICSA		1	16:50	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	Na	V	Zn
ICSAB		1	16:56	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	Na	V	Zn
CCV		1	17:02	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	Na	V	Zn
CCB		1	17:07	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	Na	V	Zn
ZZZZZZ		10	17:13															
ZZZZZZ		10	17:19															
ZZZZZZ		1	17:24															
WT0233-004	I8MW8-1-0103	50	17:30													Na		
WT0233-004L	I8MW8-1-0103L	250	17:35													Na		
WT0233-004P	I8MW8-1-0103P	50	17:41													Na		
WT0233-004S	I8MW8-1-0103S	50	17:47													Na		
WT0233-005	I8MW8-2-0103	50	17:52													Na		
WT0233-006	S1MW-7-0103	50	17:58													Na		
WT0233-007	0103-DUP-01	50	18:04													Na		
CCV		1	18:09	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	Na	V	Zn
CCB		1	18:15	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	Na	V	Zn
WT0246-010	S1SW-1-0103	3	18:21	Al	Ba	Be	Cd	Ca	Cu	Fe			Ni	K	Ag		V	Zn
WT0246-010	S1SW-1-0103	10	18:26								Mg	Mn						

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** CTO233-4

Instrument ID: TJA 61 ICP **File Name:** BTB11A

Date: 2/11/03 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements									
WT0246-011	S1SW-2-0103	10	18:32				Ca		Mg		K		
WT0246-012	S1SW-3-0103	10	18:37				Ca		Mg				
ZZZZZZ		1	18:43										
ZZZZZZ		1	18:49										
ZZZZZZ		1	18:54										
ZZZZZZ		1	19:00										
ZZZZZZ		1	19:06										
ZZZZZZ		1	19:11										
CCV		1	19:17	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	Na	V	Zn
CCB		1	19:23	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	Na	V	Zn
ZZZZZZ		1	19:28															
ZZZZZZ		1	19:34															
ZZZZZZ		1	19:39															
ZZZZZZ		1	19:45															
ZZZZZZ		1	19:51															
ZZZZZZ		1	19:56															
ZZZZZZ		1	20:02															
CRI		1	20:08	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	Na	V	Zn
ICSA		1	20:13	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	Na	V	Zn
ICSAB		1	20:19	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	Na	V	Zn
CCV		1	20:25	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	Na	V	Zn
CCB		1	20:30	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	K	Ag	Na	V	Zn

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** CTO233-4

Instrument ID: TJA 61 ICP **File Name:** BTB13A

Date: 2/13/03 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements								
S0		1	13:50	Al	Ba Be	Cd Ca	Cu Fe	Mg Mn	Ni K	Ag Na	V	Zn
S1		1	13:56	Al	Ba Be	Cd Ca	Cu Fe	Mg Mn	Ni K	Ag Na	V	Zn
AL IEC		1	14:01	Al	Ba Be	Cd Ca	Cu Fe	Mg Mn	Ni K	Ag Na	V	Zn
FE IEC		1	14:10	Al	Ba Be	Cd Ca	Cu Fe	Mg Mn	Ni K	Ag Na	V	Zn
ICV		1	14:18	Al	Ba Be	Cd Ca	Cu Fe	Mg Mn	Ni K	Ag Na	V	Zn
ICB		1	14:24	Al	Ba Be	Cd Ca	Cu Fe	Mg Mn	Ni K	Ag Na	V	Zn
PQL		1	14:29	Al	Ba Be	Cd Ca	Cu Fe	Mg Mn	Ni K	Ag Na	V	Zn
CRI		1	14:35	Al	Ba Be	Cd Ca	Cu Fe	Mg Mn	Ni K	Ag Na	V	Zn
ICSA		1	14:40	Al	Ba Be	Cd Ca	Cu Fe	Mg Mn	Ni K	Ag Na	V	Zn
ICSAB		1	14:46	Al	Ba Be	Cd Ca	Cu Fe	Mg Mn	Ni K	Ag Na	V	Zn
CCV		1	14:52	Al	Ba Be	Cd Ca	Cu Fe	Mg Mn	Ni K	Ag Na	V	Zn
CCB		1	15:02	Al	Ba Be	Cd Ca	Cu Fe	Mg Mn	Ni K	Ag Na	V	Zn
ZZZZZZ		1	15:08									
ZZZZZZ		1	15:14									
ZZZZZZ		1	15:19									
ZZZZZZ		1	15:25									
ZZZZZZ		1	15:31									
WT0246-010	S1SW-1-0103	100	15:36							Na		
WT0246-011	S1SW-2-0103	100	15:42							Na		
WT0246-012	S1SW-3-0103	3	15:47	Al	Ba Be	Cd	Cu Fe	Mn	Ni K	Ag	V	Zn
WT0246-012	S1SW-3-0103	100	15:53							Na		
ZZZZZZ		1	15:59									
CCV		1	16:04	Al	Ba Be	Cd Ca	Cu Fe	Mg Mn	Ni K	Ag Na	V	Zn
CCB		1	16:10	Al	Ba Be	Cd Ca	Cu Fe	Mg Mn	Ni K	Ag Na	V	Zn
ZZZZZZ		1	16:16									
ZZZZZZ		1	16:21									
ZZZZZZ		5	16:27									
ZZZZZZ		1	16:33									
ZZZZZZ		1	16:38									
ZZZZZZ		1	16:44									
ZZZZZZ		1	16:49									
ZZZZZZ		1	16:55									
ZZZZZZ		1	17:01									
ZZZZZZ		1	17:06									
CCV		1	17:12	Al	Ba Be	Cd Ca	Cu Fe	Mg Mn	Ni K	Ag Na	V	Zn
CCB		1	17:18	Al	Ba Be	Cd Ca	Cu Fe	Mg Mn	Ni K	Ag Na	V	Zn
ZZZZZZ		1	17:23									
ZZZZZZ		1	17:29									
ZZZZZZ		1	17:35									
ZZZZZZ		5	17:40									
ZZZZZZ		1	17:46									
ZZZZZZ		1	17:51									
ZZZZZZ		1	17:57									
CRI		1	18:03	Al	Ba Be	Cd Ca	Cu Fe	Mg Mn	Ni K	Ag Na	V	Zn
ICSA		1	18:08	Al	Ba Be	Cd Ca	Cu Fe	Mg Mn	Ni K	Ag Na	V	Zn
ICSAB		1	18:14	Al	Ba Be	Cd Ca	Cu Fe	Mg Mn	Ni K	Ag Na	V	Zn
CCV		1	18:20	Al	Ba Be	Cd Ca	Cu Fe	Mg Mn	Ni K	Ag Na	V	Zn
CCB		1	18:25	Al	Ba Be	Cd Ca	Cu Fe	Mg Mn	Ni K	Ag Na	V	Zn

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** CTO233-4

Instrument ID: TJA 61 ICP **File Name:** BTB25A

Date: 2/25/03 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements								
S0		1	13:51	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	Ag	V	Zn
S1		1	13:57	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	Ag	V	Zn
AL_IEC		1	14:03	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	Ag	V	Zn
FE_IEC		1	14:11	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	Ag	V	Zn
ICV		1	14:19	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	Ag	V	Zn
ICB		1	14:25	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	Ag	V	Zn
PQL		1	14:31	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	Ag	V	Zn
CRI		1	14:36	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	Ag	V	Zn
ICSA		1	14:42	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	Ag	V	Zn
ICSAB		1	14:48	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	Ag	V	Zn
CCV		1	14:53	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	Ag	V	Zn
CCB		1	14:59	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	Ag	V	Zn
ZZZZZZ		1	15:04													
ZZZZZZ		1	15:10													
ZZZZZZ		1	15:16													
ZZZZZZ		50	15:21													
ZZZZZZ		5	15:27													
ZZZZZZ		25	15:33													
ZZZZZZ		5	15:38													
ZZZZZZ		5	15:44													
ZZZZZZ		5	15:50													
ZZZZZZ		5	15:56													
CCV		1	16:02	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	Ag	V	Zn
CCB		1	16:07	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	Ag	V	Zn
ZZZZZZ		1	16:13													
ZZZZZZ		2	16:19													
ZZZZZZ		50	16:24													
ZZZZZZ		5	16:30													
ZZZZZZ		5	16:36													
ZZZZZZ		1	16:42													
ZZZZZZ		1	16:48													
ZZZZZZ		1	16:54													
ZZZZZZ		1	16:59													
ZZZZZZ		1	17:05													
CCV		1	17:11	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	Ag	V	Zn
CCB		1	17:16	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	Ag	V	Zn
ZZZZZZ		1	17:23													
ZZZZZZ		1	17:28													
ZZZZZZ		1	17:34													
ZZZZZZ		1	17:39													
ZZZZZZ		1	17:45													
ZZZZZZ		1	17:51													
ZZZZZZ		1	17:56													
CRI		1	18:02	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	Ag	V	Zn
ICSA		1	18:08	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	Ag	V	Zn
ICSAB		1	18:13	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	Ag	V	Zn
CCV		1	18:19	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	Ag	V	Zn
CCB		1	18:25	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	Ag	V	Zn
ZZZZZZ		1	18:30													
ZZZZZZ		1	18:36													

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** CTO233-4

Instrument ID: TJA 61 ICP **File Name:** BTB25A

Date: 2/25/03 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements									
ZZZZZZ		1	18:41										
ZZZZZZ		1	18:47										
ZZZZZZ		1	18:53										
ZZZZZZ		1	18:58										
ZZZZZZ		1	19:04										
ZZZZZZ		1	19:10										
ZZZZZZ		1	19:15										
ZZZZZZ		1	19:21										
CCV		1	19:26	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	Ag	V	Zn
CCB		1	19:32	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	Ag	V	Zn
ZZZZZZ		1	19:38													
WT0246-011	S1SW-2-0103	5	19:43	Al	Ba	Be	Cd		Cu	Fe		Mn	Ni	Ag	V	Zn
ZZZZZZ		50	19:49													
ZZZZZZ		50	19:55													
CRI		1	20:00	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	Ag	V	Zn
ICSA		1	20:06	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	Ag	V	Zn
ICSAB		1	20:12	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	Ag	V	Zn
CCV		1	20:17	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	Ag	V	Zn
CCB		1	20:23	Al	Ba	Be	Cd	Ca	Cu	Fe	Mg	Mn	Ni	Ag	V	Zn

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** CTO233-4

Instrument ID: LEEMAN MERCURY A **File Name:** DTB11A

Date: 2/11/03 **Method:** CV

Lab Sample ID	Client ID	D.F.	Time	Elements
Std1			15:01	Hg
Std2			15:05	Hg
Std3			15:10	Hg
Std4			15:15	Hg
Std5			15:19	Hg
Std6			15:24	Hg
ICV		1	15:28	Hg
ICB		1	15:33	Hg
CRA		1	15:37	Hg
CCV		1	15:42	Hg
CCB		1	15:46	Hg
ZZZZZZ		1	15:51	
PBWTB11HGW0		1	15:55	Hg
LCSWTB11HGW0		1	16:00	Hg
CCV		1	16:04	Hg
CCB		1	16:09	Hg

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** CTO233-4

Instrument ID: LEEMAN MERCURY A **File Name:** DTB11C

Date: 2/11/03 **Method:** CV

Lab Sample ID	Client ID	D.F.	Time	Elements
Std1			17:03	Hg
Std2			17:07	Hg
Std3			17:12	Hg
Std4			17:16	Hg
Std5			17:21	Hg
Std6			17:25	Hg
ICV		1	17:30	Hg
ICB		1	17:35	Hg
CRA		1	17:39	Hg
CCV		1	17:44	Hg
CCB		1	17:48	Hg
LC2WTB11HGW0		1	17:53	Hg
ZZZZZZ		1	17:57	
ZZZZZZ		1	18:02	
ZZZZZZ		1	18:06	
ZZZZZZ		1	18:11	
ZZZZZZ		1	18:15	
ZZZZZZ		1	18:20	
ZZZZZZ		1	18:24	
ZZZZZZ		1	18:29	
ZZZZZZ		1	18:33	
CCV		1	18:38	Hg
CCB		1	18:42	Hg
WT0233-004	I8MW8-1-0103	1	18:47	Hg
WT0233-005	I8MW8-2-0103	1	18:51	Hg
WT0233-006	S1MW-7-0103	1	18:56	Hg
WT0233-007	0103-DUP-01	1	19:00	Hg
WT0246-010	S1SW-1-0103	1	19:05	Hg
WT0246-011	S1SW-2-0103	1	19:09	Hg
WT0246-012	S1SW-3-0103	1	19:14	Hg
ZZZZZZ		1	19:18	
ZZZZZZ		1	19:23	
ZZZZZZ		1	19:27	
CCV		1	19:32	Hg
CCB		1	19:36	Hg

FIELD DUPLICATE PRECISION

ANALYTE	0103-DUP-01	S1MW-7-0103	RPD	DIFFERENCE
Aluminum	96.3U	96.3U	#VALUE!	#VALUE!
Antimony	3.6U	4	#VALUE!	#VALUE!
Arsenic	8.2	11.6	34.34 OK	3.4
Barium	26.2	23.4	11.29	2.8
Beryllium	1.6U	1.6U	#VALUE!	#VALUE!
Cadmium	13U	13U	#VALUE!	#VALUE!
Calcium	582000	576000	1.04	6000
Chromium	2.2	2.3	4.44	0.1
Cobalt	1.7U	1.7U	#VALUE!	#VALUE!
Copper	11.9U	11.9U	#VALUE!	#VALUE!
Iron	156	111	33.71 OK	45
Lead	2.6U	2.6U	#VALUE!	#VALUE!
Magnesium	1110000	1100000	0.90	10000
Manganese	2.9U	2.9U	#VALUE!	#VALUE!
Mercury	0.1	0.09	10.53	0.01
Nickel	50.9U	50.9U	#VALUE!	#VALUE!
Potassium	347000	348000	0.29	1000
Selenium	6.4U	6.4U	#VALUE!	#VALUE!
Silver	12.3U	12.3U	#VALUE!	#VALUE!
Sodium	8200000	8410000	2.53	210000
Thallium	8.6U	8.6U	#VALUE!	#VALUE!
Tin	6U	6U	#VALUE!	#VALUE!
Vanadium	25.9U	25.9U	#VALUE!	#VALUE!
Zinc	6.1U	11	#VALUE!	#VALUE!

ANALYTE	0103-DUP-06	S9MW-14-0103	RPD	DIFFERENCE
Chloride	760	810	6.37	50
Sulfate	180	170	5.71	10
Sulfide	11	11	0.00	0
Total Organic Carbon	13	13	0.00	0

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **C. BRYAN** **DATE:** **APRIL 11, 2003**

FROM: **BERNARD F SPADA III** **COPIES:** **DV FILE/REV 1**

SUBJECT: **ORGANIC DATA VALIDATION- VOC/SVOC/PAH/PEST/TPH**
CTO 233, NAS KEY WEST
SDG 2334

SAMPLES: 17/Aqueous

0103-DUP-01*#	0103-DUP-06	FC-MW-05-0103@
FC-MW-06-0103@	FC-MW-20R-0103@	S1MW-5-0103
S1MW-7-0103*#	S9MW-12-0103	S9MW-14-0103
S9MW-15-0103	S9MW-21-0103	S9MW-22-0103
S9MW-24-0103	S9MW-25-0103	S9MW-5-0103
TB-013103	TB-020303	S1SW-1-0103*
S1SW-2-0103*#		

OVERVIEW

The sample set for CTO 233, NAS Key West, SDG 2334 consists of thirteen (13) environmental aqueous samples, two (2) trip blanks, and two (2) field duplicates. All samples except the "S1SW" samples were analyzed for volatile organic compounds (VOC). The samples denoted with an ampersand (@) were analyzed for polynuclear aromatic hydrocarbons (PAH), ethylene dibromide (EDB), and total petroleum hydrocarbons (TPH). The samples denoted with an asterisk (*) were analyzed for Appendix IX semivolatile organic compounds (SVOC). The samples denoted with a pound sign (#) were analyzed for pesticides (PEST) also. The field duplicate pairs included in this SDG are (0103-DUP-01 / S1MW-7-0103) and (0103-DUP-06 / S9MW-14-0103).

The samples were collected by Tetra Tech NUS on January 31 and February 1-3, 2003 and analyzed by Katahdin Analytical Services. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria using SW-846 Methods 8260B, 8081A, and 8270C, EPA Method 504.1, and Florida PRO analytical and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

- Data completeness
- * Holding times
- Initial and continuing calibration
- Laboratory method and field quality control blank results
- Field Duplicate Precision
- Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified Analytical results are presented in Appendix A.

The text of this report is formulated to address only gross non-compliances resulting in the rejection of data and the elimination of false positives.

Volatile

The initial and continuing calibrations performed on the GCMS-F instrument on February 5 and February 7 were below the 0.05 relative response factor (RRF) quality control criteria for 2-chloroethylvinyl ether. The non-detected results for 2-chloroethylvinyl-ether were rejected (UR) in samples FC-MW-05-0103, FC-MW-06-0103, and FC-MW-20R-0103.

The initial calibration performed on the GCMS-S instrument on November 21 was below the 0.05 RRF quality control criteria for acrolein and propionitrile. All non-detected results for the aforementioned compounds were rejected (UR) in all samples except FC-MW-05-0103, FC-MW-06-0103, and FC-MW-20R-0103.

The continuing calibration performed on the GCMS-S instrument on February 7 at 11:31 was below the 0.05 RRF quality control criteria for acetone, isobutyl alcohol, acetonitrile, and 1,4-dioxane. All non-detected results for the aforementioned compounds were rejected (UR) in samples TB-013103, TB-020303, S1MW-7-0103, 0103-DUP-01, 0103-DUP-06, S9MW-12-0103, S9MW-14-0103, S9MW-15-0103, S9MW-22-0103, S9MW-24-0103, and S9MW-25-0103. The positive result for acetone in sample S9MW-24-0103 was qualified as estimated (J).

The continuing calibration performed on the GCMS-S instrument on February 7 at 11:31 exceeded the 25% difference (and was >50%) quality control criteria for 2-chloroethylvinyl ether. No qualifications were made on this basis.

The continuing calibration performed on the GCMS-S instrument on February 10 at 12:25 exceeded the 25% difference (and was >50%) quality control criteria for 4-methyl-2-pentanone, 2-hexanone, and acrolein. No qualifications were assigned on this basis.

The MS/MSD of sample S9MW-5-0103 was below the percent recovery quality control criteria (and was <10%) for chloroprene. The non-detected result for chloroprene in sample S9MW-5-0103 was rejected (UR).

The continuing calibration performed on the GCMS-S instrument on February 10 at 12:25 the 0.05 RRF quality control criteria for 2-chloroethylvinyl ether, isobutyl alcohol, acetonitrile, and 1,4-dioxane. All non-detected results for the aforementioned compounds were rejected (UR) in samples S1MW-5-0103 and S9MW-21-0103.

The continuing calibration for 2-chloroethylvinyl ether performed on the GCMS-S instrument on February 10 at 12:25 was incorrectly identified in the data package. The laboratory was requested to re-submit the continuing calibration. The re-submittal did not have the CCAL RRF re-calculated on it. The laboratory was again requested to resubmit the CCAL. The laboratory provided the CCAL upon request.

The following compounds were detected in the method blank:

Compound	Maximum Concentration	Blank Action Level
Methylene Chloride	0.9 µg/L	9.0 µg/L
m+p-Xylene	0.2 µg/L	1.0 µg/L
total-Xylene	0.2 µg/L	1.0 µg/L

Sample aliquot and dilution factors were taken into consideration when applying the blank action levels. Positive results for the aforementioned compounds below the blank action level were qualified as non-detected, (U). Field quality control blanks were not qualified due to laboratory blank contamination.

Semivolatile

The initial calibration performed on March 3 was below the 0.05 RRF quality control criteria for kepone. All results for kepone were rejected (UR).

The initial calibration performed on March 3 exceeded the 30% RSD (and was >50%) quality control criteria for famphur and p-phenylenediamine. No qualifications were made on this basis.

The continuing calibration performed on March 3 at 17:29 was below the 0.05 RRF quality control criteria for diallate, 4-nitroquinoline-1-oxide, and kepone. The results for the aforementioned compounds were rejected (UR) in samples S1SW-2-0103 and S1MW-7-0103.

The continuing calibration performed on March 3 at 17:29 exceeded the 25% difference (and was >50%) quality control criteria for p-phenylenediamine. No qualifications were made on this basis.

The continuing calibration performed on March 4 at 14:12 was below the 0.05 RRF quality control criteria for diallate, 4-nitroquinoline-1-oxide, and kepone. The results for the aforementioned compounds were rejected (UR) in samples S1SW-1-0103 and 0103-DUP-01.

The continuing calibration performed on March 4 at 14:12 exceeded the 25% difference (and was >90%) quality control criteria for famphur. The results for famphur were qualified as estimated (UJ) in samples S1SW-1-0103 and 0103-DUP-01.

PAH

The continuing calibration performed on March 5 at 09:33 exceeded the 25% difference (and was >50%) quality control criteria for 1-methylnaphthalene and indeno(1,2,3-cd)pyrene. No qualifications were made on this basis.

All surrogates had 0% recovery in sample FC-MW-20R-0103. No qualifications were made on this basis because the sample was analyzed at a dilution.

Sample FC-MW-20R-0103 was analyzed at a dilution because the concentration of target analytes present exceeded the linear calibration range of the instrument. The sample was not analyzed un-diluted. This accounts for the elevated reporting limits for all non-detected compounds in the aforementioned sample.

Sample FC-MW-05-0103 was re-analyzed because the internal standard perylene-d12 exceeded the percent recovery quality control criteria. The re-analysis exceeded the percent recovery quality control criteria for three internal standards. The original analysis was used for validation. No qualifications were made on this basis.

Pesticide

The continuing calibration analyzed on February 20 at 02:08 exceeded the 15%D (and was >30%D) quality control criteria for endrin ketone on the RTX-CLP1 column. No qualifications were made on this basis because the RTX-CLP2 column was <30%.

TPH

No qualifications were assigned to this fraction.

Additional Comments

Positive results below the reporting limit were qualified as estimated (J) due to uncertainty near the detection limit.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Qualifications were made based on calibration non-compliances, method blank contamination, and MS/MSD non-compliances.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (10/99) and the NFESC guidelines. The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC guidelines and the Quality Assurance Project Plan (QAPP)."

Bernard F. Spada III

Tetra Tech NUS
Bernard F. Spada III
Chemist/Data Validator

Edward Sedlmeyer

TetraTech NUS
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration (i.e., % RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
D = MS/MSD Noncompliance
E = LCS/LCSD Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - include ICSAB % R's
L = Instrument Calibration Range Exceedance
M = Sample Preservation
N = Internal Standard Noncompliance
N01 = Internal Standard Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = Pest/PCD% between columns for positive results
V = Non-linear calibrations, tuning $r < 0.995$ (correlation coefficient)
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity

PROJ_NO: 4202

SDG: 2334 MEDIA: WATER DATA FRACTION: O

nsample	0103-DUP-01
samp_date	1/31/2003
lab_id	WT0233-7
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	S1MW-7-0103

Parameter	Result	Val Qual	Qual Code
1,1,1,2-TETRACHLOROETHANE	5	U	
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,3-TRICHLOROPROPANE	5	U	
1,2-DIBROMO-3-CHLOROPROPANE	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,4-DIOXANE	100	UR	C
2-BUTANONE	10	U	
2-CHLOROETHYL VINYL ETHER	5	U	
2-HEXANONE	10	U	
3-CHLOROPROPENE	10	U	
4-METHYL-2-PENTANONE	10	U	
ACETONE	10	UR	C
ACETONITRILE	50	UR	C
ACROLEIN	50	UR	C
ACRYLONITRILE	10	U	
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	

nsample	0103-DUP-01
samp_date	1/31/2003
lab_id	WT0233-7
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	S1MW-7-0103

Parameter	Result	Val Qual	Qual Code
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CHLOROPRENE	10	U	
CIS-1,2-DICHLOROETHENE	5	U	
CIS-1,3-DICHLOROPROPENE	5	U	
DIBROMOMETHANE	5	U	
DICHLORODIFLUOROMETHANE	5	U	
ETHYL METHACRYLATE	10	U	
ETHYLBENZENE	5	U	
ISOBUTANOL	100	UR	C
M+P-XYLENES	5	U	
METHACRYLONITRILE	50	U	
METHYL IODIDE	10	U	
METHYL METHACRYLATE	10	U	
METHYLENE CHLORIDE	5	U	
O-XYLENE	5	U	
PENTACHLOROETHANE	10	U	
PROPIONITRILE	50	UR	C
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL 1,2-DICHLOROETHENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPENE	5	U	
TRANS-1,4-DICHLORO-2-BUTENE	10	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL ACETATE	5	U	
VINYL CHLORIDE	2	U	

nsample	0103-DUP-06
samp_date	2/1/2003
lab_id	WT0246-8
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	S9MW-14-0103

Parameter	Result	Val Qual	Qual Code
1,1,1,2-TETRACHLOROETHANE	5	U	
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	1	J	P
1,2,3-TRICHLOROPROPANE	5	U	
1,2-DIBROMO-3-CHLOROPROPANE	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,4-DIOXANE	100	UR	C
2-BUTANONE	10	U	
2-CHLOROETHYL VINYL ETHER	5	U	
2-HEXANONE	10	U	
3-CHLOROPROPENE	10	U	
4-METHYL-2-PENTANONE	10	U	
ACETONE	10	UR	C
ACETONITRILE	50	UR	C
ACROLEIN	50	UR	C
ACRYLONITRILE	10	U	
BENZENE	1	J	P
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	

PROJ_NO: 4202

SDG: 2334 MEDIA: WATER DATA FRACTION: O

nsample	0103-DUP-06
samp_date	2/1/2003
lab_id	WT0246-8
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	S9MW-14-0103

Parameter	Result	Val Qual	Qual Code
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CHLOROPRENE	10	U	
CIS-1,2-DICHLOROETHENE	1300		
CIS-1,3-DICHLOROPROPENE	5	U	
DIBROMOMETHANE	5	U	
DICHLORODIFLUOROMETHANE	5	U	
ETHYL METHACRYLATE	10	U	
ETHYLBENZENE	5	U	
ISOBUTANOL	100	UR	C
M+P-XYLENES	5	U	A
METHACRYLONITRILE	50	U	
METHYL IODIDE	10	U	
METHYL METHACRYLATE	10	U	
METHYLENE CHLORIDE	5	U	
O-XYLENE	5	U	
PENTACHLOROETHANE	10	U	
PROPIONITRILE	50	UR	C
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL 1,2-DICHLOROETHENE	5300		
TOTAL XYLENES	5	U	A
TRANS-1,2-DICHLOROETHENE	4000		
TRANS-1,3-DICHLOROPROPENE	5	U	
TRANS-1,4-DICHLORO-2-BUTENE	10	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL ACETATE	5	U	
VINYL CHLORIDE	2	U	

nsample	FC-MW-05-0103
samp_date	1/31/2003
lab_id	WT0233-3
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMOETHANE	0.02	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	UR	C
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1		
M+P-XYLENES	4		
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1		
TETRACHLOROETHENE	1	U	
TOLUENE	1		
TOTAL 1,2-DICHLOROETHENE	2	U	
TOTAL XYLENES	5		

nsample	FC-MW-05-0103
samp_date	1/31/2003
lab_id	WT0233-3
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	J	P
VINYL CHLORIDE	2	U	

PROJ_NO: 4202

SDG: 2334 MEDIA: WATER DATA FRACTION: O

nsample	FC-MW-06-0103
samp_date	1/31/2003
lab_id	WT0233-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMOETHANE	0.02	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	UR	C
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1		
M+P-XYLENES	3		
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1		
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	2	U	
TOTAL XYLENES	5		

nsample	FC-MW-06-0103
samp_date	1/31/2003
lab_id	WT0233-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

nsample	FC-MW-20R-0103
samp_date	1/31/2003
lab_id	WT0233-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMOETHANE	0.02	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	UR	C
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	88		
M+P-XYLENES	19		
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	4		
TOTAL 1,2-DICHLOROETHENE	2	U	
TOTAL XYLENES	19		

PROJ_NO: 4202

SDG: 2334 MEDIA: WATER DATA FRACTION: O

nsample	FC-MW-20R-0103
samp_date	1/31/2003
lab_id	WT0233-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

nsample	S1MW-5-0103
samp_date	2/1/2003
lab_id	WT0246-9
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1,2-TETRACHLOROETHANE	5	U	
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,3-TRICHLOROPROPANE	5	U	
1,2-DIBROMO-3-CHLOROPROPANE	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,4-DIOXANE	100	UR	C
2-BUTANONE	10	U	
2-CHLOROETHYL VINYL ETHER	5	UR	C
2-HEXANONE	10	U	
3-CHLOROPROPENE	10	U	
4-METHYL-2-PENTANONE	10	U	
ACETONE	10	U	
ACETONITRILE	50	UR	C
ACROLEIN	50	UR	C
ACRYLONITRILE	10	U	
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	

nsample	S1MW-5-0103
samp_date	2/1/2003
lab_id	WT0246-9
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CHLOROPRENE	10	U	
CIS-1,2-DICHLOROETHENE	5	U	
CIS-1,3-DICHLOROPROPENE	5	U	
DIBROMOMETHANE	5	U	
DICHLORODIFLUOROMETHANE	5	U	
ETHYL METHACRYLATE	10	U	
ETHYLBENZENE	5	U	
ISOBUTANOL	100	UR	C
M+P-XYLENES	5	U	
METHACRYLONITRILE	50	U	
METHYL IODIDE	10	U	
METHYL METHACRYLATE	10	U	
METHYLENE CHLORIDE	5	U	
O-XYLENE	5	U	
PENTACHLOROETHANE	10	U	
PROPIONITRILE	50	UR	C
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL 1,2-DICHLOROETHENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPENE	5	U	
TRANS-1,4-DICHLORO-2-BUTENE	10	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL ACETATE	5	U	
VINYL CHLORIDE	2	U	

PROJ_NO: 4202

SDG: 2334 MEDIA: WATER DATA FRACTION: O

nsample	S1MW-7-0103
samp_date	1/31/2003
lab_id	WT0233-6
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1,2-TETRACHLOROETHANE	5	U	
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,3-TRICHLOROPROPANE	5	U	
1,2-DIBROMO-3-CHLOROPROPANE	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,4-DIOXANE	100	UR	C
2-BUTANONE	10	U	
2-CHLOROETHYL VINYL ETHER	5	U	
2-HEXANONE	10	U	
3-CHLOROPROPENE	10	U	
4-METHYL-2-PENTANONE	10	U	
ACETONE	10	UR	C
ACETONITRILE	50	UR	C
ACROLEIN	50	UR	C
ACRYLONITRILE	10	U	
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	

nsample	S1MW-7-0103
samp_date	1/31/2003
lab_id	WT0233-6
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CHLOROPRENE	10	U	
CIS-1,2-DICHLOROETHENE	5	U	
CIS-1,3-DICHLOROPROPENE	5	U	
DIBROMOMETHANE	5	U	
DICHLORODIFLUOROMETHANE	5	U	
ETHYL METHACRYLATE	10	U	
ETHYLBENZENE	5	U	
ISOBUTANOL	100	UR	C
M+P-XYLENES	5	U	
METHACRYLONITRILE	50	U	
METHYL IODIDE	10	U	
METHYL METHACRYLATE	10	U	
METHYLENE CHLORIDE	5	U	
O-XYLENE	5	U	
PENTACHLOROETHANE	10	U	
PROPIONITRILE	50	UR	C
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL 1,2-DICHLOROETHENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPENE	5	U	
TRANS-1,4-DICHLORO-2-BUTENE	10	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL ACETATE	5	U	
VINYL CHLORIDE	2	U	

nsample	S9MW-12-0103
samp_date	2/3/2003
lab_id	WT0246-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1,2-TETRACHLOROETHANE	5	U	
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,3-TRICHLOROPROPANE	5	U	
1,2-DIBROMO-3-CHLOROPROPANE	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,4-DIOXANE	100	UR	C
2-BUTANONE	10	U	
2-CHLOROETHYL VINYL ETHER	5	U	
2-HEXANONE	10	U	
3-CHLOROPROPENE	10	U	
4-METHYL-2-PENTANONE	10	U	
ACETONE	10	UR	C
ACETONITRILE	50	UR	C
ACROLEIN	50	UR	C
ACRYLONITRILE	10	U	
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	

PROJ_NO: 4202

SDG: 2334 MEDIA: WATER DATA FRACTION: O

nsample	S9MW-12-0103
samp_date	2/3/2003
lab_id	WT0246-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CHLOROPRENE	10	U	
CIS-1,2-DICHLOROETHENE	5	U	
CIS-1,3-DICHLOROPROPENE	5	U	
DIBROMOMETHANE	5	U	
DICHLORODIFLUOROMETHANE	5	U	
ETHYL METHACRYLATE	10	U	
ETHYLBENZENE	5	U	
ISOBUTANOL	100	UR	C
M+P-XYLENES	5	U	
METHACRYLONITRILE	50	U	
METHYL IODIDE	10	U	
METHYL METHACRYLATE	10	U	
METHYLENE CHLORIDE	5	U	
O-XYLENE	5	U	
PENTACHLOROETHANE	10	U	
PROPIONITRILE	50	UR	C
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL 1,2-DICHLOROETHENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPENE	5	U	
TRANS-1,4-DICHLORO-2-BUTENE	10	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL ACETATE	5	U	
VINYL CHLORIDE	2	U	

nsample	S9MW-14-0103
samp_date	2/1/2003
lab_id	WT0246-3
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1,2-TETRACHLOROETHANE	5	U	
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	0.9	J	P
1,2,3-TRICHLOROPROPANE	5	U	
1,2-DIBROMO-3-CHLOROPROPANE	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,4-DIOXANE	100	UR	C
2-BUTANONE	10	U	
2-CHLOROETHYL VINYL ETHER	5	U	
2-HEXANONE	10	U	
3-CHLOROPROPENE	10	U	
4-METHYL-2-PENTANONE	10	U	
ACETONE	10	UR	C
ACETONITRILE	50	UR	C
ACROLEIN	50	UR	C
ACRYLONITRILE	10	U	
BENZENE	1	J	P
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	

nsample	S9MW-14-0103
samp_date	2/1/2003
lab_id	WT0246-3
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CHLOROPRENE	10	U	
CIS-1,2-DICHLOROETHENE	1000		
CIS-1,3-DICHLOROPROPENE	5	U	
DIBROMOMETHANE	5	U	
DICHLORODIFLUOROMETHANE	5	U	
ETHYL METHACRYLATE	10	U	
ETHYLBENZENE	5	U	
ISOBUTANOL	100	UR	C
M+P-XYLENES	5	U	A
METHACRYLONITRILE	50	U	
METHYL IODIDE	10	U	
METHYL METHACRYLATE	10	U	
METHYLENE CHLORIDE	5	U	
O-XYLENE	5	U	
PENTACHLOROETHANE	10	U	
PROPIONITRILE	50	UR	C
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL 1,2-DICHLOROETHENE	4100		
TOTAL XYLENES	5	U	A
TRANS-1,2-DICHLOROETHENE	3000		
TRANS-1,3-DICHLOROPROPENE	5	U	
TRANS-1,4-DICHLORO-2-BUTENE	10	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL ACETATE	5	U	
VINYL CHLORIDE	2		

PROJ_NO: 4202

SDG: 2334 MEDIA: WATER DATA FRACTION: O

nsample	S9MW-15-0103
samp_date	2/1/2003
lab_id	WT0246-4
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1,2-TETRACHLOROETHANE	5	U	
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	0.4	J	P
1,2,3-TRICHLOROPROPANE	5	U	
1,2-DIBROMO-3-CHLOROPROPANE	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,4-DIOXANE	100	UR	C
2-BUTANONE	10	U	
2-CHLOROETHYL VINYL ETHER	5	U	
2-HEXANONE	10	U	
3-CHLOROPROPENE	10	U	
4-METHYL-2-PENTANONE	10	U	
ACETONE	10	UR	C
ACETONITRILE	50	UR	C
ACROLEIN	50	UR	C
ACRYLONITRILE	10	U	
BENZENE	0.3	J	P
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	

nsample	S9MW-15-0103
samp_date	2/1/2003
lab_id	WT0246-4
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CHLOROPRENE	10	U	
CIS-1,2-DICHLOROETHENE	210		
CIS-1,3-DICHLOROPROPENE	5	U	
DIBROMOMETHANE	5	U	
DICHLORODIFLUOROMETHANE	5	U	
ETHYL METHACRYLATE	10	U	
ETHYLBENZENE	5	U	
ISOBUTANOL	100	UR	C
M+P-XYLENES	5	U	
METHACRYLONITRILE	50	U	
METHYL IODIDE	10	U	
METHYL METHACRYLATE	10	U	
METHYLENE CHLORIDE	5	U	
O-XYLENE	5	U	
PENTACHLOROETHANE	10	U	
PROPIONITRILE	50	UR	C
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL 1,2-DICHLOROETHENE	740		
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	520		
TRANS-1,3-DICHLOROPROPENE	5	U	
TRANS-1,4-DICHLORO-2-BUTENE	10	U	
TRICHLOROETHENE	2	J	P
TRICHLOROFLUOROMETHANE	5	U	
VINYL ACETATE	5	U	
VINYL CHLORIDE	2		

nsample	S9MW-21-0103
samp_date	2/2/2003
lab_id	WT0246-5
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1,2-TETRACHLOROETHANE	5	U	
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,3-TRICHLOROPROPANE	5	U	
1,2-DIBROMO-3-CHLOROPROPANE	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,4-DIOXANE	100	UR	C
2-BUTANONE	10	U	
2-CHLOROETHYL VINYL ETHER	5	UR	C
2-HEXANONE	10	U	
3-CHLOROPROPENE	10	U	
4-METHYL-2-PENTANONE	10	U	
ACETONE	10	U	
ACETONITRILE	50	UR	C
ACROLEIN	50	UR	C
ACRYLONITRILE	10	U	
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	

PROJ_NO: 4202

SDG: 2334 MEDIA: WATER DATA FRACTION: O

nsample	S9MW-21-0103
samp_date	2/2/2003
lab_id	WT0246-5
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CHLOROPRENE	10	U	
CIS-1,2-DICHLOROETHENE	87		
CIS-1,3-DICHLOROPROPENE	5	U	
DIBROMOMETHANE	5	U	
DICHLORODIFLUOROMETHANE	5	U	
ETHYL METHACRYLATE	10	U	
ETHYLBENZENE	5	U	
ISOBUTANOL	100	UR	C
M+P-XYLENES	5	U	
METHACRYLONITRILE	50	U	
METHYL IODIDE	10	U	
METHYL METHACRYLATE	10	U	
METHYLENE CHLORIDE	5	U	
O-XYLENE	5	U	
PENTACHLOROETHANE	10	U	
PROPIONITRILE	50	UR	C
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL 1,2-DICHLOROETHENE	280		
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	190		
TRANS-1,3-DICHLOROPROPENE	5	U	
TRANS-1,4-DICHLORO-2-BUTENE	10	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL ACETATE	5	U	
VINYL CHLORIDE	2	U	

nsample	S9MW-22-0103
samp_date	2/2/2003
lab_id	WT0246-13
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1,2-TETRACHLOROETHANE	5	U	
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	0.3	J	P
1,2,3-TRICHLOROPROPANE	5	U	
1,2-DIBROMO-3-CHLOROPROPANE	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,4-DIOXANE	100	UR	C
2-BUTANONE	10	U	
2-CHLOROETHYL VINYL ETHER	5	U	
2-HEXANONE	10	U	
3-CHLOROPROPENE	10	U	
4-METHYL-2-PENTANONE	10	U	
ACETONE	10	UR	C
ACETONITRILE	50	UR	C
ACROLEIN	50	UR	C
ACRYLONITRILE	10	U	
BENZENE	0.7	J	P
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	

nsample	S9MW-22-0103
samp_date	2/2/2003
lab_id	WT0246-13
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CHLOROPRENE	10	U	
CIS-1,2-DICHLOROETHENE	340		
CIS-1,3-DICHLOROPROPENE	5	U	
DIBROMOMETHANE	5	U	
DICHLORODIFLUOROMETHANE	5	U	
ETHYL METHACRYLATE	10	U	
ETHYLBENZENE	5	U	
ISOBUTANOL	100	UR	C
M+P-XYLENES	5	U	
METHACRYLONITRILE	50	U	
METHYL IODIDE	10	U	
METHYL METHACRYLATE	10	U	
METHYLENE CHLORIDE	5	U	
O-XYLENE	5	U	
PENTACHLOROETHANE	10	U	
PROPIONITRILE	50	UR	C
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL 1,2-DICHLOROETHENE	1200		
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	890		
TRANS-1,3-DICHLOROPROPENE	5	U	
TRANS-1,4-DICHLORO-2-BUTENE	10	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL ACETATE	5	U	
VINYL CHLORIDE	2	U	

PROJ_NO: 4202

SDG: 2334 MEDIA: WATER DATA FRACTION: O

nsample	S9MW-24-0103
samp_date	2/2/2003
lab_id	WT0246-6
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1,2-TETRACHLOROETHANE	5	U	
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,3-TRICHLOROPROPANE	5	U	
1,2-DIBROMO-3-CHLOROPROPANE	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,4-DIOXANE	100	UR	C
2-BUTANONE	10	U	
2-CHLOROETHYL VINYL ETHER	5	U	
2-HEXANONE	10	U	
3-CHLOROPROPENE	10	U	
4-METHYL-2-PENTANONE	10	U	
ACETONE	4	J	CP
ACETONITRILE	50	UR	C
ACROLEIN	50	UR	C
ACRYLONITRILE	10	U	
BENZENE	0.5	J	P
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	0.6	J	P
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	

nsample	S9MW-24-0103
samp_date	2/2/2003
lab_id	WT0246-6
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CHLOROPRENE	10	U	
CIS-1,2-DICHLOROETHENE	110		
CIS-1,3-DICHLOROPROPENE	5	U	
DIBROMOMETHANE	5	U	
DICHLORODIFLUOROMETHANE	5	U	
ETHYL METHACRYLATE	10	U	
ETHYLBENZENE	5	U	
ISOBUTANOL	100	UR	C
M+P-XYLENES	5	U	A
METHACRYLONITRILE	50	U	
METHYL IODIDE	10	U	
METHYL METHACRYLATE	10	U	
METHYLENE CHLORIDE	5	U	
O-XYLENE	5	U	
PENTACHLOROETHANE	10	U	
PROPIONITRILE	50	UR	C
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	0.3	J	P
TOTAL 1,2-DICHLOROETHENE	440		
TOTAL XYLENES	5	U	A
TRANS-1,2-DICHLOROETHENE	330		
TRANS-1,3-DICHLOROPROPENE	5	U	
TRANS-1,4-DICHLORO-2-BUTENE	10	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL ACETATE	5	U	
VINYL CHLORIDE	2	U	

nsample	S9MW-25-0103
samp_date	2/2/2003
lab_id	WT0246-7
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1,2-TETRACHLOROETHANE	5	U	
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,3-TRICHLOROPROPANE	5	U	
1,2-DIBROMO-3-CHLOROPROPANE	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,4-DIOXANE	100	UR	C
2-BUTANONE	10	U	
2-CHLOROETHYL VINYL ETHER	5	U	
2-HEXANONE	10	U	
3-CHLOROPROPENE	10	U	
4-METHYL-2-PENTANONE	10	U	
ACETONE	10	UR	C
ACETONITRILE	50	UR	C
ACROLEIN	50	UR	C
ACRYLONITRILE	10	U	
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	0.3	J	P
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	

PROJ_NO: 4202

SDG: 2334 MEDIA: WATER DATA FRACTION: O

nsample	S9MW-25-0103
samp_date	2/2/2003
lab_id	WT0246-7
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CHLOROPRENE	10	U	
CIS-1,2-DICHLOROETHENE	5	U	
CIS-1,3-DICHLOROPROPENE	5	U	
DIBROMOMETHANE	5	U	
DICHLORODIFLUOROMETHANE	5	U	
ETHYL METHACRYLATE	10	U	
ETHYLBENZENE	5	U	
ISOBUTANOL	100	UR	C
M+P-XYLENES	5	U	
METHACRYLONITRILE	50	U	
METHYL IODIDE	10	U	
METHYL METHACRYLATE	10	U	
METHYLENE CHLORIDE	5	U	
O-XYLENE	5	U	
PENTACHLOROETHANE	10	U	
PROPIONITRILE	50	UR	C
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL 1,2-DICHLOROETHENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	0.8	J	P
TRANS-1,3-DICHLOROPROPENE	5	U	
TRANS-1,4-DICHLORO-2-BUTENE	10	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL ACETATE	5	U	
VINYL CHLORIDE	2	U	

nsample	S9MW-5-0103
samp_date	2/1/2003
lab_id	WT0246-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1,2-TETRACHLOROETHANE	5	U	
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,3-TRICHLOROPROPANE	5	U	
1,2-DIBROMO-3-CHLOROPROPANE	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,4-DIOXANE	100	UR	C
2-BUTANONE	10	U	
2-CHLOROETHYL VINYL ETHER	5	UJ	C
2-HEXANONE	10	U	
3-CHLOROPROPENE	10	U	
4-METHYL-2-PENTANONE	10	U	
ACETONE	10	UR	C
ACETONITRILE	50	UR	C
ACROLEIN	50	UR	C
ACRYLONITRILE	10	U	
BENZENE	3	J	P
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	0.2	J	P
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	UR	D
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	

nsample	S9MW-5-0103
samp_date	2/1/2003
lab_id	WT0246-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CHLOROPRENE	10	U	
CIS-1,2-DICHLOROETHENE	5	U	
CIS-1,3-DICHLOROPROPENE	5	U	
DIBROMOMETHANE	5	U	
DICHLORODIFLUOROMETHANE	5	U	
ETHYL METHACRYLATE	10	U	
ETHYLBENZENE	2	J	P
ISOBUTANOL	100	UR	C
M+P-XYLENES	5	U	
METHACRYLONITRILE	50	U	
METHYL IODIDE	10	U	
METHYL METHACRYLATE	10	U	
METHYLENE CHLORIDE	5	U	
O-XYLENE	5	U	
PENTACHLOROETHANE	10	U	
PROPIONITRILE	50	UR	C
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL 1,2-DICHLOROETHENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPENE	5	U	
TRANS-1,4-DICHLORO-2-BUTENE	10	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL ACETATE	5	U	
VINYL CHLORIDE	2	U	

PROJ_NO: 4202

SDG: 2334 MEDIA: WATER DATA FRACTION: O

nsample	TB-013103
samp_date	1/21/2003
lab_id	WT0233-8
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1,2-TETRACHLOROETHANE	5	U	
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,3-TRICHLOROPROPANE	5	U	
1,2-DIBROMO-3-CHLOROPROPANE	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,4-DIOXANE	100	UR	C
2-BUTANONE	10	U	
2-CHLOROETHYL VINYL ETHER	5	UJ	C
2-HEXANONE	10	U	
3-CHLOROPROPENE	10	U	
4-METHYL-2-PENTANONE	10	U	
ACETONE	10	UR	C
ACETONITRILE	50	UR	C
ACROLEIN	50	UR	C
ACRYLONITRILE	10	U	
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	

nsample	TB-013103
samp_date	1/21/2003
lab_id	WT0233-8
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CHLOROPRENE	10	U	
CIS-1,2-DICHLOROETHENE	5	U	
CIS-1,3-DICHLOROPROPENE	5	U	
DIBROMOMETHANE	5	U	
DICHLORODIFLUOROMETHANE	5	U	
ETHYL METHACRYLATE	10	U	
ETHYLBENZENE	5	U	
ISOBUTANOL	100	UR	C
M+P-XYLENES	5	U	
METHACRYLONITRILE	50	U	
METHYL IODIDE	10	U	
METHYL METHACRYLATE	10	U	
METHYLENE CHLORIDE	5	U	
O-XYLENE	5	U	
PENTACHLOROETHANE	10	U	
PROPIONITRILE	50	UR	C
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL 1,2-DICHLOROETHENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPENE	5	U	
TRANS-1,4-DICHLORO-2-BUTENE	10	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL ACETATE	5	U	
VINYL CHLORIDE	2	U	

nsample	TB-020303
samp_date	1/21/2003
lab_id	WT0246-14
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1,2-TETRACHLOROETHANE	5	U	
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,3-TRICHLOROPROPANE	5	U	
1,2-DIBROMO-3-CHLOROPROPANE	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,4-DIOXANE	100	UR	C
2-BUTANONE	10	U	
2-CHLOROETHYL VINYL ETHER	5	UJ	C
2-HEXANONE	10	U	
3-CHLOROPROPENE	10	U	
4-METHYL-2-PENTANONE	10	U	
ACETONE	10	UR	C
ACETONITRILE	50	UR	C
ACROLEIN	50	UR	C
ACRYLONITRILE	10	U	
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	

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SDG: 2334 MEDIA: WATER DATA FRACTION: O

nsample	TB-020303
samp_date	1/21/2003
lab_id	WT0246-14
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CHLOROPRENE	10	U	
CIS-1,2-DICHLOROETHENE	5	U	
CIS-1,3-DICHLOROPROPENE	5	U	
DIBROMOMETHANE	5	U	
DICHLORODIFLUOROMETHANE	5	U	
ETHYL METHACRYLATE	10	U	
ETHYLBENZENE	5	U	
ISOBUTANOL	100	UR	C
M+P-XYLENES	5	U	
METHACRYLONITRILE	50	U	
METHYL IODIDE	10	U	
METHYL METHACRYLATE	10	U	
METHYLENE CHLORIDE	5	U	
O-XYLENE	5	U	
PENTACHLOROETHANE	10	U	
PROPIONITRILE	50	UR	C
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL 1,2-DICHLOROETHENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPENE	5	U	
TRANS-1,4-DICHLORO-2-BUTENE	10	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL ACETATE	5	U	
VINYL CHLORIDE	2	U	

PROJ_NO: 4202

SDG: 2334 MEDIA: WATER DATA FRACTION: O

nsample	0103-DUP-01
samp_date	1/31/2003
lab_id	WT0233-7
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	S1MW-7-0103

Parameter	Result	Val Qual	Qual Code
1,2,4,5-TETRACHLOROBENZENE	10	U	
1,2,4-TRICHLOROBENZENE	10	U	
1,2-DICHLOROBENZENE	10	U	
1,2-DIPHENYLHYDRAZINE	20	U	
1,3,5-TRINITROBENZENE	10	U	
1,3-DICHLOROBENZENE	10	U	
1,3-DINITROBENZENE	10	U	
1,4-DICHLOROBENZENE	10	U	
1,4-NAPHTHOQUINONE	10	U	
1,4-PHENYLENEDIAMINE	10	U	
1-NAPHTHYLAMINE	10	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	10	U	
2,3,4,6-TETRACHLOROPHENOL	10	U	
2,4,5-TRICHLOROPHENOL	25	U	
2,4,6-TRICHLOROPHENOL	10	U	
2,4-DICHLOROPHENOL	10	U	
2,4-DIMETHYLPHENOL	10	U	
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	10	U	
2,6-DICHLOROPHENOL	10	U	
2,6-DINITROTOLUENE	10	U	
2-ACETYLAMINOFLUORENE	10	U	
2-CHLORONAPHTHALENE	10	U	
2-CHLOROPHENOL	10	U	
2-METHYLNAPHTHALENE	10	U	
2-METHYLPHENOL	10	U	
2-NAPHTHYLAMINE	10	U	
2-NITROANILINE	25	U	
2-NITROPHENOL	10	U	
2-PICOLINE	10	U	

nsample	0103-DUP-01
samp_date	1/31/2003
lab_id	WT0233-7
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	S1MW-7-0103

Parameter	Result	Val Qual	Qual Code
3&4-METHYLPHENOL	10	U	
3,3'-DICHLOROBENZIDINE	10	U	
3,3'-DIMETHYLBENZIDINE	20	U	
3-METHYLCHOLANTHRENE	10	U	
3-NITROANILINE	25	U	
4,6-DINITRO-2-METHYLPHENOL	25	U	
4-AMINOBIPHENYL	10	U	
4-BROMOPHENYL PHENYL ETHER	10	U	
4-CHLORO-3-METHYLPHENOL	10	U	
4-CHLOROANILINE	10	U	
4-CHLOROPHENYL PHENYL ETHER	10	U	
4-NITROANILINE	25	U	
4-NITROPHENOL	25	U	
4-NITROQUINOLINE-1-OXIDE	20	UR	C
5-NITRO-O-TOLUIDINE	20	U	
7,12-DIMETHYLBENZ(A)ANTHRACENE	10	U	
A,A-DIMETHYLPHENETHYLAMINE	10	U	
ACENAPHTHENE	10	U	
ACENAPHTHYLENE	10	U	
ACETOPHENONE	10	U	
ANILINE	10	U	
ANTHRACENE	10	U	
ARAMITE	20	U	
BENZIDINE	50	U	
BENZO(A)ANTHRACENE	10	U	
BENZO(A)PYRENE	10	U	
BENZO(B)FLUORANTHENE	10	U	
BENZO(G,H,I)PERYLENE	10	U	
BENZO(K)FLUORANTHENE	10	U	
BENZYL ALCOHOL	20	U	

nsample	0103-DUP-01
samp_date	1/31/2003
lab_id	WT0233-7
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	S1MW-7-0103

Parameter	Result	Val Qual	Qual Code
BIS(2-CHLOROETHOXY)METHANE	10	U	
BIS(2-CHLOROETHYL)ETHER	10	U	
BIS(2-ETHYLHEXYL)PHTHALATE	10	U	
BUTYL BENZYL PHTHALATE	10	U	
CARBAZOLE	10	U	
CHLOROBENZILATE	20	U	
CHRYSENE	10	U	
DIALLATE	20	UR	C
DIBENZO(A,H)ANTHRACENE	10	U	
DIBENZOFURAN	10	U	
DIETHYL PHTHALATE	10	U	
DIMETHOATE	10	U	
DIMETHYL PHTHALATE	10	U	
DI-N-BUTYL PHTHALATE	10	U	
DI-N-OCTYL PHTHALATE	10	U	
DISULFOTON	10	U	
ETHYL METHANE SULFONATE	10	U	
FAMPHUR	10	UJ	C
FLUORANTHENE	10	U	
FLUORENE	10	U	
HEXACHLOROBENZENE	10	U	
HEXACHLOROBUTADIENE	10	U	
HEXACHLOROCYCLOPENTADIENE	10	U	
HEXACHLOROETHANE	10	U	
HEXACHLOROPHENE	10	U	
HEXACHLOROPROPENE	10	U	
INDENO(1,2,3-CD)PYRENE	10	U	
ISODRIN	20	U	
ISOPHORONE	10	U	
ISOSAFROLE	20	U	

PROJ_NO: 4202

SDG: 2334 MEDIA: WATER DATA FRACTION: O

nsample	0103-DUP-01
samp_date	1/31/2003
lab_id	WT0233-7
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	S1MW-7-0103

Parameter	Result	Val Qual	Qual Code
KEPONE	10	UR	C
METHAPYRILENE	10	U	
METHYL METHANE SULFONATE	20	U	
METHYL PARATHION	10	U	
NAPHTHALENE	10	U	
NITROBENZENE	10	U	
N-NITROSODIETHYLAMINE	20	U	
N-NITROSODIMETHYLAMINE	20	U	
N-NITROSO-DI-N-BUTYLAMINE	10	U	
N-NITROSO-DI-N-PROPYLAMINE	10	U	
N-NITROSODIPHENYLAMINE	10	U	
N-NITROSOMETHYLETHYLAMINE	10	U	
N-NITROSOMORPHOLINE	10	U	
N-NITROSOPIPERIDINE	10	U	
N-NITROSOPYRROLIDINE	10	U	
O,O,O-TRIETHYL PHOSPHOROTHIOAT	20	U	
O-TOLUIDINE	10	U	
P-(DIMETHYLAMINO)AZOBENZENE	20	U	
PENTACHLOROBENZENE	10	U	
PENTACHLORONITROBENZENE	10	U	
PENTACHLOROPHENOL	25	U	
PHENACETIN	10	U	
PHENANTHRENE	10	U	
PHENOL	10	U	
PHORATE	10	U	
PRONAMIDE	10	U	
PYRENE	10	U	
PYRIDINE	50	U	
SAFROLE	10	U	
SULFOTEPP	10	U	

nsample	S1MW-7-0103
samp_date	1/31/2003
lab_id	WT0233-6
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,2,4,5-TETRACHLOROBENZENE	10	U	
1,2,4-TRICHLOROBENZENE	10	U	
1,2-DICHLOROBENZENE	10	U	
1,2-DIPHENYLHYDRAZINE	20	U	
1,3,5-TRINITROBENZENE	10	U	
1,3-DICHLOROBENZENE	10	U	
1,3-DINITROBENZENE	10	U	
1,4-DICHLOROBENZENE	10	U	
1,4-NAPHTHOQUINONE	10	U	
1,4-PHENYLENEDIAMINE	10	U	
1-NAPHTHYLAMINE	10	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	10	U	
2,3,4,6-TETRACHLOROPHENOL	10	U	
2,4,5-TRICHLOROPHENOL	25	U	
2,4,6-TRICHLOROPHENOL	10	U	
2,4-DICHLOROPHENOL	10	U	
2,4-DIMETHYLPHENOL	10	U	
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	10	U	
2,6-DICHLOROPHENOL	10	U	
2,6-DINITROTOLUENE	10	U	
2-ACETYLAMINOFLUORENE	10	U	
2-CHLORONAPHTHALENE	10	U	
2-CHLOROPHENOL	10	U	
2-METHYLNAPHTHALENE	10	U	
2-METHYLPHENOL	10	U	
2-NAPHTHYLAMINE	10	U	
2-NITROANILINE	25	U	
2-NITROPHENOL	10	U	
2-PICOLINE	10	U	

nsample	S1MW-7-0103
samp_date	1/31/2003
lab_id	WT0233-6
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
3&4-METHYLPHENOL	10	U	
3,3'-DICHLOROBENZIDINE	10	U	
3,3'-DIMETHYLBENZIDINE	20	U	
3-METHYLCHOLANTHRENE	10	U	
3-NITROANILINE	25	U	
4,6-DINITRO-2-METHYLPHENOL	25	U	
4-AMINOBIPHENYL	10	U	
4-BROMOPHENYL PHENYL ETHER	10	U	
4-CHLORO-3-METHYLPHENOL	10	U	
4-CHLOROANILINE	10	U	
4-CHLOROPHENYL PHENYL ETHER	10	U	
4-NITROANILINE	25	U	
4-NITROPHENOL	25	U	
4-NITROQUINOLINE-1-OXIDE	20	UR	C
5-NITRO-O-TOLUIDINE	20	U	
7,12-DIMETHYLBENZ(A)ANTHRACENE	10	U	
A,A-DIMETHYLPHENETHYLAMINE	10	U	
ACENAPHTHENE	10	U	
ACENAPHTHYLENE	10	U	
ACETOPHENONE	10	U	
ANILINE	10	U	
ANTHRACENE	10	U	
ARAMITE	20	U	
BENZIDINE	50	U	
BENZO(A)ANTHRACENE	10	U	
BENZO(A)PYRENE	10	U	
BENZO(B)FLUORANTHENE	10	U	
BENZO(G,H,I)PERYLENE	10	U	
BENZO(K)FLUORANTHENE	10	U	
BENZYL ALCOHOL	20	U	

PROJ_NO: 4202

SDG: 2334 MEDIA: WATER DATA FRACTION: O

nsample	S1MW-7-0103		nsample	S1MW-7-0103		nsample	S1SW-1-0103	
samp_date	1/31/2003		samp_date	1/31/2003		samp_date	2/1/2003	
lab_id	WT0233-6		lab_id	WT0233-6		lab_id	WT0246-10	
qc_type	NM		qc_type	NM		qc_type	NM	
units	UG/L		units	UG/L		units	UG/L	
Pct_Solids	0		Pct_Solids	0		Pct_Solids	0	
DUP_OF:			DUP_OF:			DUP_OF:		
Parameter	Result	Val Qual / Qual Code	Parameter	Result	Val Qual / Qual Code	Parameter	Result	Val Qual / Qual Code
BIS(2-CHLOROETHOXY)METHANE	10	U	KEPONE	10	UR C	1,2,4,5-TETRACHLOROBENZENE	10	U
BIS(2-CHLOROETHYL)ETHER	10	U	METHAPYRILENE	10	U	1,2,4-TRICHLOROBENZENE	10	U
BIS(2-ETHYLHEXYL)PHTHALATE	10	U	METHYL METHANE SULFONATE	20	U	1,2-DICHLOROBENZENE	10	U
BUTYL BENZYL PHTHALATE	10	U	METHYL PARATHION	10	U	1,2-DIPHENYLHYDRAZINE	20	U
CARBAZOLE	10	U	NAPHTHALENE	10	U	1,3,5-TRINITROBENZENE	10	U
CHLOROBENZILATE	20	U	NITROBENZENE	10	U	1,3-DICHLOROBENZENE	10	U
CHRYSENE	10	U	N-NITROSODIETHYLAMINE	20	U	1,3-DINITROBENZENE	10	U
DIALLATE	20	UR C	N-NITROSODIMETHYLAMINE	20	U	1,4-DICHLOROBENZENE	10	U
DIBENZO(A,H)ANTHRACENE	10	U	N-NITROSO-DI-N-BUTYLAMINE	10	U	1,4-NAPHTHOQUINONE	10	U
DIBENZOFURAN	10	U	N-NITROSO-DI-N-PROPYLAMINE	10	U	1,4-PHENYLENEDIAMINE	10	U
DIETHYL PHTHALATE	10	U	N-NITROSODIPHENYLAMINE	10	U	1-NAPHTHYLAMINE	10	U
DIMETHOATE	10	U	N-NITROSOMETHYLETHYLAMINE	10	U	2,2'-OXYBIS(1-CHLOROPROPANE)	10	U
DIMETHYL PHTHALATE	10	U	N-NITROSOMORPHOLINE	10	U	2,3,4,6-TETRACHLOROPHENOL	10	U
DI-N-BUTYL PHTHALATE	10	U	N-NITROSOPIPERIDINE	10	U	2,4,5-TRICHLOROPHENOL	25	U
DI-N-OCTYL PHTHALATE	10	U	N-NITROSOPYRROLIDINE	10	U	2,4,6-TRICHLOROPHENOL	10	U
DISULFOTON	10	U	O,O,O-TRIETHYL PHOSPHOROTHIOAT	20	U	2,4-DICHLOROPHENOL	10	U
ETHYL METHANE SULFONATE	10	U	O-TOLUIDINE	10	U	2,4-DIMETHYLPHENOL	10	U
FAMPHUR	10	U	P-(DIMETHYLAMINO)AZOBENZENE	20	U	2,4-DINITROPHENOL	25	U
FLUORANTHENE	10	U	PENTACHLOROBENZENE	10	U	2,4-DINITROTOLUENE	10	U
FLUORENE	10	U	PENTACHLORONITROBENZENE	10	U	2,6-DICHLOROPHENOL	10	U
HEXACHLOROBENZENE	10	U	PENTACHLOROPHENOL	25	U	2,6-DINITROTOLUENE	10	U
HEXACHLOROBUTADIENE	10	U	PHENACETIN	10	U	2-ACETYLAMINOFLUORENE	10	U
HEXACHLOROCYCLOPENTADIENE	10	U	PHENANTHRENE	10	U	2-CHLORONAPHTHALENE	10	U
HEXACHLOROETHANE	10	U	PHENOL	10	U	2-CHLOROPHENOL	10	U
HEXACHLOROPHENE	10	U	PHORATE	10	U	2-METHYLNAPHTHALENE	10	U
HEXACHLOROPROPENE	10	U	PRONAMIDE	10	U	2-METHYLPHENOL	10	U
INDENO(1,2,3-CD)PYRENE	10	U	PYRENE	10	U	2-NAPHTHYLAMINE	10	U
ISODRIN	20	U	PYRIDINE	50	U	2-NITROANILINE	25	U
ISOPHORONE	10	U	SAFROLE	10	U	2-NITROPHENOL	10	U
ISOSAFROLE	20	U	SULFOTEPP	10	U	2-PICOLINE	10	U

PROJ_NO: 4202

SDG: 2334 MEDIA: WATER DATA FRACTION: O

nsample	S1SW-1-0103
samp_date	2/1/2003
lab_id	WT0246-10
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
3&4-METHYLPHENOL	10	U	
3,3'-DICHLOROBENZIDINE	10	U	
3,3'-DIMETHYLBENZIDINE	20	U	
3-METHYLCHOLANTHRENE	10	U	
3-NITROANILINE	25	U	
4,6-DINITRO-2-METHYLPHENOL	25	U	
4-AMINOBIPHENYL	10	U	
4-BROMOPHENYL PHENYL ETHER	10	U	
4-CHLORO-3-METHYLPHENOL	10	U	
4-CHLOROANILINE	10	U	
4-CHLOROPHENYL PHENYL ETHER	10	U	
4-NITROANILINE	25	U	
4-NITROPHENOL	25	U	
4-NITROQUINOLINE-1-OXIDE	20	UR	C
5-NITRO-O-TOLUIDINE	20	U	
7,12-DIMETHYLBENZ(A)ANTHRACENE	10	U	
A,A-DIMETHYLPHENETHYLAMINE	10	U	
ACENAPHTHENE	10	U	
ACENAPHTHYLENE	10	U	
ACETOPHENONE	10	U	
ANILINE	10	U	
ANTHRACENE	10	U	
ARAMITE	20	U	
BENZIDINE	50	U	
BENZO(A)ANTHRACENE	10	U	
BENZO(A)PYRENE	10	U	
BENZO(B)FLUORANTHENE	10	U	
BENZO(G,H,I)PERYLENE	10	U	
BENZO(K)FLUORANTHENE	10	U	
BENZYL ALCOHOL	20	U	

nsample	S1SW-1-0103
samp_date	2/1/2003
lab_id	WT0246-10
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BIS(2-CHLOROETHOXY)METHANE	10	U	
BIS(2-CHLOROETHYL)ETHER	10	U	
BIS(2-ETHYLHEXYL)PHTHALATE	10	U	
BUTYL BENZYL PHTHALATE	10	U	
CARBAZOLE	10	U	
CHLOROBENZILATE	20	U	
CHRYSENE	10	U	
DIALLATE	20	UR	C
DIBENZO(A,H)ANTHRACENE	10	U	
DIBENZOFURAN	10	U	
DIETHYL PHTHALATE	10	U	
DIMETHOATE	10	U	
DIMETHYL PHTHALATE	10	U	
DI-N-BUTYL PHTHALATE	10	U	
DI-N-OCTYL PHTHALATE	10	U	
DISULFOTON	10	U	
ETHYL METHANE SULFONATE	10	U	
FAMPHUR	10	UJ	C
FLUORANTHENE	10	U	
FLUORENE	10	U	
HEXACHLOROBENZENE	10	U	
HEXACHLOROBUTADIENE	10	U	
HEXACHLOROCYCLOPENTADIENE	10	U	
HEXACHLOROETHANE	10	U	
HEXACHLOROPHENE	10	U	
HEXACHLOROPROPENE	10	U	
INDENO(1,2,3-CD)PYRENE	10	U	
ISODRIN	20	U	
ISOPHORONE	10	U	
ISOSAFROLE	20	U	

nsample	S1SW-1-0103
samp_date	2/1/2003
lab_id	WT0246-10
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
KEPONE	10	UR	C
METHAPYRILENE	10	U	
METHYL METHANE SULFONATE	20	U	
METHYL PARATHION	10	U	
NAPHTHALENE	10	U	
NITROBENZENE	10	U	
N-NITROSODIETHYLAMINE	20	U	
N-NITROSODIMETHYLAMINE	20	U	
N-NITROSO-DI-N-BUTYLAMINE	10	U	
N-NITROSO-DI-N-PROPYLAMINE	10	U	
N-NITROSODIPHENYLAMINE	10	U	
N-NITROSOMETHYLETHYLAMINE	10	U	
N-NITROSOMORPHOLINE	10	U	
N-NITROSOPIPERIDINE	10	U	
N-NITROSOPYRROLIDINE	10	U	
O,O,O-TRIETHYL PHOSPHOROTHIOAT	20	U	
O-TOLUIDINE	10	U	
P-(DIMETHYLAMINO)AZOBENZENE	20	U	
PENTACHLOROBENZENE	10	U	
PENTACHLORONITROBENZENE	10	U	
PENTACHLOROPHENOL	25	U	
PHENACETIN	10	U	
PHENANTHRENE	10	U	
PHENOL	10	U	
PHORATE	10	U	
PRONAMIDE	10	U	
PYRENE	10	U	
PYRIDINE	50	U	
SAFROLE	10	U	
SULFOTEPP	10	U	

PROJ_NO: 4202

SDG: 2334 MEDIA: WATER DATA FRACTION: O

nsample	S1SW-2-0103
samp_date	2/1/2003
lab_id	WT0246-11
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,2,4,5-TETRACHLOROBENZENE	10	U	
1,2,4-TRICHLOROBENZENE	10	U	
1,2-DICHLOROBENZENE	10	U	
1,2-DIPHENYLHYDRAZINE	20	U	
1,3,5-TRINITROBENZENE	10	U	
1,3-DICHLOROBENZENE	10	U	
1,3-DINITROBENZENE	10	U	
1,4-DICHLOROBENZENE	10	U	
1,4-NAPHTHOQUINONE	10	U	
1,4-PHENYLENEDIAMINE	10	U	
1-NAPHTHYLAMINE	10	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	10	U	
2,3,4,6-TETRACHLOROPHENOL	10	U	
2,4,5-TRICHLOROPHENOL	25	U	
2,4,6-TRICHLOROPHENOL	10	U	
2,4-DICHLOROPHENOL	10	U	
2,4-DIMETHYLPHENOL	10	U	
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	10	U	
2,6-DICHLOROPHENOL	10	U	
2,6-DINITROTOLUENE	10	U	
2-ACETYLAMINOFLUORENE	10	U	
2-CHLORONAPHTHALENE	10	U	
2-CHLOROPHENOL	10	U	
2-METHYLNAPHTHALENE	10	U	
2-METHYLPHENOL	10	U	
2-NAPHTHYLAMINE	10	U	
2-NITROANILINE	25	U	
2-NITROPHENOL	10	U	
2-PICOLINE	10	U	

nsample	S1SW-2-0103
samp_date	2/1/2003
lab_id	WT0246-11
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
3&4-METHYLPHENOL	10	U	
3,3'-DICHLOROBENZIDINE	10	U	
3,3'-DIMETHYLBENZIDINE	20	U	
3-METHYLCHOLANTHRENE	10	U	
3-NITROANILINE	25	U	
4,6-DINITRO-2-METHYLPHENOL	25	U	
4-AMINOBIPHENYL	10	U	
4-BROMOPHENYL PHENYL ETHER	10	U	
4-CHLORO-3-METHYLPHENOL	10	U	
4-CHLOROANILINE	10	U	
4-CHLOROPHENYL PHENYL ETHER	10	U	
4-NITROANILINE	25	U	
4-NITROPHENOL	25	U	
4-NITROQUINOLINE-1-OXIDE	20	UR	C
5-NITRO-O-TOLUIDINE	20	U	
7,12-DIMETHYLBENZ(A)ANTHRACENE	10	U	
A,A-DIMETHYLPHENETHYLAMINE	10	U	
ACENAPHTHENE	10	U	
ACENAPHTHYLENE	10	U	
ACETOPHENONE	10	U	
ANILINE	10	U	
ANTHRACENE	10	U	
ARAMITE	20	U	
BENZIDINE	50	U	
BENZO(A)ANTHRACENE	10	U	
BENZO(A)PYRENE	10	U	
BENZO(B)FLUORANTHENE	10	U	
BENZO(G,H,I)PERYLENE	10	U	
BENZO(K)FLUORANTHENE	10	U	
BENZYL ALCOHOL	20	U	

nsample	S1SW-2-0103
samp_date	2/1/2003
lab_id	WT0246-11
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BIS(2-CHLOROETHOXY)METHANE	10	U	
BIS(2-CHLOROETHYL)ETHER	10	U	
BIS(2-ETHYLHEXYL)PHTHALATE	10	U	
BUTYL BENZYL PHTHALATE	10	U	
CARBAZOLE	10	U	
CHLOROBENZILATE	20	U	
CHRYSENE	10	U	
DIALLATE	20	UR	C
DIBENZO(A,H)ANTHRACENE	10	U	
DIBENZOFURAN	10	U	
DIETHYL PHTHALATE	10	U	
DIMETHOATE	10	U	
DIMETHYL PHTHALATE	10	U	
DI-N-BUTYL PHTHALATE	10	U	
DI-N-OCTYL PHTHALATE	10	U	
DISULFOTON	10	U	
ETHYL METHANE SULFONATE	10	U	
FAMPHUR	10	U	
FLUORANTHENE	10	U	
FLUORENE	10	U	
HEXACHLOROBENZENE	10	U	
HEXACHLOROBUTADIENE	10	U	
HEXACHLOROCYCLOPENTADIENE	10	U	
HEXACHLOROETHANE	10	U	
HEXACHLOROPHENE	10	U	
HEXACHLOROPROPENE	10	U	
INDENO(1,2,3-CD)PYRENE	10	U	
ISODRIN	20	U	
ISOPHORONE	10	U	
ISOSAFROLE	20	U	

PROJ_NO: 4202

SDG: 2334 MEDIA: WATER DATA FRACTION: O

nsample	S1SW-2-0103
samp_date	2/1/2003
lab_id	WT0246-11
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
KEPONE	10	UR	C
METHAPYRILENE	10	U	
METHYL METHANE SULFONATE	20	U	
METHYL PARATHION	10	U	
NAPHTHALENE	10	U	
NITROBENZENE	10	U	
N-NITROSODIETHYLAMINE	20	U	
N-NITROSODIMETHYLAMINE	20	U	
N-NITROSO-DI-N-BUTYLAMINE	10	U	
N-NITROSO-DI-N-PROPYLAMINE	10	U	
N-NITROSODIPHENYLAMINE	10	U	
N-NITROSOMETHYLETHYLAMINE	10	U	
N-NITROSOMORPHOLINE	10	U	
N-NITROSOPIPERIDINE	10	U	
N-NITROSOPYRROLIDINE	10	U	
O,O,O-TRIETHYL PHOSPHOROTHIOAT	20	U	
O-TOLUIDINE	10	U	
P-(DIMETHYLAMINO)AZOBENZENE	20	U	
PENTACHLOROBENZENE	10	U	
PENTACHLORONITROBENZENE	10	U	
PENTACHLOROPHENOL	25	U	
PHENACETIN	10	U	
PHENANTHRENE	10	U	
PHENOL	10	U	
PHORATE	10	U	
PRONAMIDE	10	U	
PYRENE	10	U	
PYRIDINE	50	U	
SAFROLE	10	U	
SULFOTEPP	10	U	

PROJ_NO: 4202

SDG: 2334 MEDIA: WATER DATA FRACTION: P

nsample	FC-MW-05-0103
samp_date	1/31/2003
lab_id	WT0233-3
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	0.2	U	
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.2	U	
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

nsample	FC-MW-06-0103
samp_date	1/31/2003
lab_id	WT0233-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	0.2	U	
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.2	U	
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

nsample	FC-MW-20R-0103
samp_date	1/31/2003
lab_id	WT0233-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	46	J	P
2-METHYLNAPHTHALENE	180		
ACENAPHTHENE	52	U	
ACENAPHTHYLENE	52	U	
ANTHRACENE	52	U	
BENZO(A)ANTHRACENE	52	U	
BENZO(A)PYRENE	52	U	
BENZO(B)FLUORANTHENE	52	U	
BENZO(G,H,I)PERYLENE	52	U	
BENZO(K)FLUORANTHENE	52	U	
CHRYSENE	52	U	
DIBENZO(A,H)ANTHRACENE	52	U	
FLUORANTHENE	52	U	
FLUORENE	52	U	
INDENO(1,2,3-CD)PYRENE	52	U	
NAPHTHALENE	630		
PHENANTHRENE	52	U	
PYRENE	52	U	

PROJ_NO: 4202

SDG: 2334 MEDIA: WATER DATA FRACTION: P

nsample	0103-DUP-01
samp_date	1/31/2003
lab_id	WT0233-7
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	S1MW-7-0103

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.10	U	
4,4'-DDE	0.10	U	
4,4'-DDT	0.10	U	
ALDRIN	0.050	U	
ALPHA-BHC	0.050	U	
ALPHA-CHLORDANE	0.050	U	
BETA-BHC	0.050	U	
CHLORDANE	0.50	U	
DELTA-BHC	0.050	U	
DIELDRIN	0.10	U	
ENDOSULFAN I	0.050	U	
ENDOSULFAN II	0.10	U	
ENDOSULFAN SULFATE	0.10	U	
ENDRIN	0.10	U	
ENDRIN ALDEHYDE	0.10	U	
ENDRIN KETONE	0.10	U	
GAMMA-BHC (LINDANE)	0.050	U	
GAMMA-CHLORDANE	0.050	U	
HEPTACHLOR	0.050	U	
HEPTACHLOR EPOXIDE	0.050	U	
METHOXYCHLOR	0.50	U	
TOXAPHENE	1.0	U	

nsample	S1MW-7-0103
samp_date	1/31/2003
lab_id	WT0233-6
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.10	U	
4,4'-DDE	0.10	U	
4,4'-DDT	0.10	U	
ALDRIN	0.050	U	
ALPHA-BHC	0.050	U	
ALPHA-CHLORDANE	0.050	U	
BETA-BHC	0.050	U	
CHLORDANE	0.50	U	
DELTA-BHC	0.050	U	
DIELDRIN	0.10	U	
ENDOSULFAN I	0.050	U	
ENDOSULFAN II	0.10	U	
ENDOSULFAN SULFATE	0.10	U	
ENDRIN	0.10	U	
ENDRIN ALDEHYDE	0.10	U	
ENDRIN KETONE	0.10	U	
GAMMA-BHC (LINDANE)	0.050	U	
GAMMA-CHLORDANE	0.050	U	
HEPTACHLOR	0.050	U	
HEPTACHLOR EPOXIDE	0.050	U	
METHOXYCHLOR	0.50	U	
TOXAPHENE	1.0	U	

nsample	S1SW-2-0103
samp_date	2/1/2003
lab_id	WT0246-11
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.10	U	
4,4'-DDE	0.10	U	
4,4'-DDT	0.10	U	
ALDRIN	0.050	U	
ALPHA-BHC	0.050	U	
ALPHA-CHLORDANE	0.050	U	
BETA-BHC	0.050	U	
CHLORDANE	0.50	U	
DELTA-BHC	0.050	U	
DIELDRIN	0.10	U	
ENDOSULFAN I	0.050	U	
ENDOSULFAN II	0.10	U	
ENDOSULFAN SULFATE	0.10	U	
ENDRIN	0.10	U	
ENDRIN ALDEHYDE	0.10	U	
ENDRIN KETONE	0.10	U	
GAMMA-BHC (LINDANE)	0.050	U	
GAMMA-CHLORDANE	0.050	U	
HEPTACHLOR	0.050	U	
HEPTACHLOR EPOXIDE	0.050	U	
METHOXYCHLOR	0.50	U	
TOXAPHENE	1.0	U	

PROJ_NO: 4202

SDG: 2334 MEDIA: WATER DATA FRACTION: P

nsample	FC-MW-05-0103
samp_date	1/31/2003
lab_id	WT0233-3
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	500	U	

nsample	FC-MW-06-0103
samp_date	1/31/2003
lab_id	WT0233-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	500	U	

nsample	FC-MW-20R-0103
samp_date	1/31/2003
lab_id	WT0233-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	8200		

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 01/31/03
Received Date: 02/01/03
Extraction Date: 02/07/03
Analysis Date: 02/07/03
Report Date: 03/05/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0233-7
Client ID: 0103-DUP-01
SDG: CTO233-4
Extracted by: JSS
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG1691
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	5	1.0	5	5	0.2
74-87-3	Chloromethane	U	5	1.0	5	5	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	5	1.0	5	5	0.9
75-00-3	Chloroethane	U	5	1.0	5	5	0.3
75-69-4	Trichlorofluoromethane	U	5	1.0	5	5	0.2
75-35-4	1,1-Dichloroethene	U	5	1.0	5	5	0.3
75-15-0	Carbon Disulfide	U	5	1.0	5	5	0.2
74-88-4	Iodomethane	U	10	1.0	10	10	0.2
107-02-8	Acrolein	U	50	1.0	50	50	3
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.3
67-64-1	Acetone	U	10	1.0	10	10	3
78-83-1	Isobutyl Alcohol	U	100	1.0	100	100	78
156-60-5	trans-1,2-Dichloroethene	U	5	1.0	5	5	0.7
107-05-1	Allyl Chloride	U	10	1.0	10	10	1
75-05-8	Acetonitrile	U	50	1.0	50	50	6
126-99-8	Chloroprene	U	10	1.0	10	10	2
126-98-7	Methacrylonitrile	U	50	1.0	50	50	11
107-12-0	Propionitrile	U	50	1.0	50	50	16
75-34-3	1,1-Dichloroethane	U	5	1.0	5	5	0.1
107-13-1	Acrylonitrile	U	10	1.0	10	10	0.8
108-05-4	Vinyl Acetate	U	5	1.0	5	5	0.3
156-59-2	cis-1,2-Dichloroethene	U	5	1.0	5	5	0.5
540-59-0	1,2-Dichloroethylene (total)	U	5	1.0	5	5	1
80-62-6	Methyl Methacrylate	U	10	1.0	10	10	1
67-66-3	Chloroform	U	5	1.0	5	5	0.2
56-23-5	Carbon Tetrachloride	U	5	1.0	5	5	0.3
71-55-6	1,1,1-Trichloroethane	U	5	1.0	5	5	0.7
78-93-3	2-Butanone	U	10	1.0	10	10	2
71-43-2	Benzene	U	5	1.0	5	5	0.1
97-63-2	Ethyl Methacrylate	U	10	1.0	10	10	0.9
107-06-2	1,2-Dichloroethane	U	5	1.0	5	5	0.3
79-01-6	Trichloroethene	U	5	1.0	5	5	0.6
74-95-3	Dibromomethane	U	5	1.0	5	5	0.4
78-87-5	1,2-Dichloropropane	U	5	1.0	5	5	0.2
75-27-4	Bromodichloromethane	U	5	1.0	5	5	0.2
10061-01-5	cis-1,3-dichloropropene	U	5	1.0	5	5	0.4
123-91-1	1,4-Dioxane	U	100	1.0	100	100	43
110-75-8	2-Chloroethylvinylether	U	5	1.0	5	5	0.5
108-88-3	Toluene	U	5	1.0	5	5	0.2
108-10-1	4-methyl-2-pentanone	U	10	1.0	10	10	2
127-18-4	Tetrachloroethene	U	5	1.0	5	5	0.4
10061-02-6	trans-1,3-Dichloropropene	U	5	1.0	5	5	0.4

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 01/31/03
Received Date: 02/01/03
Extraction Date: 02/07/03
Analysis Date: 02/07/03
Report Date: 03/05/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0233-7
Client ID: 0103-DUP-01
SDG: CTO233-4
Extracted by: JSS
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG1691
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
79-00-5	1,1,2-Trichloroethane	U	5	1.0	5	5	0.3
124-48-1	Dibromochloromethane	U	5	1.0	5	5	0.3
106-93-4	1,2-Dibromoethane	U	5	1.0	5	5	0.2
591-78-6	2-Hexanone	U	10	1.0	10	10	2
108-90-7	Chlorobenzene	U	5	1.0	5	5	0.2
100-41-4	Ethylbenzene	U	5	1.0	5	5	0.1
630-20-6	1,1,1,2-Tetrachloroethane	U	5	1.0	5	5	0.2
1330-20-7	Xylenes (total)	U	5	1.0	5	5	0.2
	m+p-Xylenes	U	5	1.0	5	5	0.2
95-47-6	o-Xylene	U	5	1.0	5	5	0.2
100-42-5	Styrene	U	5	1.0	5	5	0.3
75-25-2	Bromoform	U	5	1.0	5	5	0.4
110-57-6	trans-1,4-Dichloro-2-Butene	U	10	1.0	10	10	0.5
79-34-5	1,1,2,2-Tetrachloroethane	U	5	1.0	5	5	0.4
96-18-4	1,2,3-Trichloropropane	U	5	1.0	5	5	0.9
76-01-1	Pentachloroethane	U	10	1.0	10	10	2
96-12-8	1,2-Dibromo-3-Chloropropane	U	5	1.0	5	5	0.6
1868-53-7	Dibromofluoromethane		90%				
17060-07-0	1,2-Dichloroethane-D4		111%				
2037-26-5	Toluene-D8		93%				
460-00-4	P-Bromofluorobenzene		96%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 02/01/03
Received Date: 02/04/03
Extraction Date: 02/07/03
Analysis Date: 02/07/03
Report Date: 03/05/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0246-8
Client ID: 0103-DUP-06
SDG: CTO233-4
Extracted by: JSS
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG1691
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	5	1.0	5	5	0.2
74-87-3	Chloromethane	U	5	1.0	5	5	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	5	1.0	5	5	0.9
75-00-3	Chloroethane	U	5	1.0	5	5	0.3
75-69-4	Trichlorofluoromethane	U	5	1.0	5	5	0.2
75-35-4	1,1-Dichloroethene	J	1	1.0	5	5	0.3
75-15-0	Carbon Disulfide	U	5	1.0	5	5	0.2
74-88-4	Iodomethane	U	10	1.0	10	10	0.2
107-02-8	Acrolein	U	50	1.0	50	50	3
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.3
67-64-1	Acetone	U	10	1.0	10	10	3
78-83-1	Isobutyl Alcohol	U	100	1.0	100	100	78
156-60-5	trans-1,2-Dichloroethene	E	3400	1.0	5	5	0.7
107-05-1	Allyl Chloride	U	10	1.0	10	10	1
75-05-8	Acetonitrile	U	50	1.0	50	50	6
126-99-8	Chloroprene	U	10	1.0	10	10	2
126-98-7	Methacrylonitrile	U	50	1.0	50	50	11
107-12-0	Propionitrile	U	50	1.0	50	50	16
75-34-3	1,1-Dichloroethane	U	5	1.0	5	5	0.1
107-13-1	Acrylonitrile	U	10	1.0	10	10	0.8
108-05-4	Vinyl Acetate	U	5	1.0	5	5	0.3
156-59-2	cis-1,2-Dichloroethene	E	1200	1.0	5	5	0.5
540-59-0	1,2-Dichloroethylene (total)	E	4600	1.0	5	5	1
80-62-6	Methyl Methacrylate	U	10	1.0	10	10	1
67-66-3	Chloroform	U	5	1.0	5	5	0.2
56-23-5	Carbon Tetrachloride	U	5	1.0	5	5	0.3
71-55-6	1,1,1-Trichloroethane	U	5	1.0	5	5	0.7
78-93-3	2-Butanone	U	10	1.0	10	10	2
71-43-2	Benzene	J	1	1.0	5	5	0.1
97-63-2	Ethyl Methacrylate	U	10	1.0	10	10	0.9
107-06-2	1,2-Dichloroethane	U	5	1.0	5	5	0.3
79-01-6	Trichloroethene	U	5	1.0	5	5	0.6
74-95-3	Dibromomethane	U	5	1.0	5	5	0.4
78-87-5	1,2-Dichloropropane	U	5	1.0	5	5	0.2
75-27-4	Bromodichloromethane	U	5	1.0	5	5	0.2
10061-01-5	cis-1,3-dichloropropene	U	5	1.0	5	5	0.4
123-91-1	1,4-Dioxane	U	100	1.0	100	100	43
110-75-8	2-Chloroethylvinylether	U	5	1.0	5	5	0.5
108-88-3	Toluene	U	5	1.0	5	5	0.2
108-10-1	4-methyl-2-pentanone	U	10	1.0	10	10	2
127-18-4	Tetrachloroethene	U	5	1.0	5	5	0.4
10061-02-6	trans-1,3-Dichloropropene	U	5	1.0	5	5	0.4

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 02/01/03
Received Date: 02/04/03
Extraction Date: 02/07/03
Analysis Date: 02/07/03
Report Date: 03/05/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0246-8
Client ID: 0103-DUP-06
SDG: CTO233-4
Extracted by: JSS
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG1691
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
79-00-5	1,1,2-Trichloroethane	U	5	1.0	5	5	0.3
124-48-1	Dibromochloromethane	U	5	1.0	5	5	0.3
106-93-4	1,2-Dibromoethane	U	5	1.0	5	5	0.2
591-78-6	2-Hexanone	U	10	1.0	10	10	2
108-90-7	Chlorobenzene	U	5	1.0	5	5	0.2
100-41-4	Ethylbenzene	U	5	1.0	5	5	0.1
630-20-6	1,1,1,2-Tetrachloroethane	U	5	1.0	5	5	0.2
1330-20-7	Xylenes (total)	J	0.3	1.0	5	5	0.2
	m+p-Xylenes	J	0.3	1.0	5	5	0.2
95-47-6	o-Xylene	U	5	1.0	5	5	0.2
100-42-5	Styrene	U	5	1.0	5	5	0.3
75-25-2	Bromoform	U	5	1.0	5	5	0.4
110-57-6	trans-1,4-Dichloro-2-Butene	U	10	1.0	10	10	0.5
79-34-5	1,1,2,2-Tetrachloroethane	U	5	1.0	5	5	0.4
96-18-4	1,2,3-Trichloropropane	U	5	1.0	5	5	0.9
76-01-1	Pentachloroethane	U	10	1.0	10	10	2
96-12-8	1,2-Dibromo-3-Chloropropane	U	5	1.0	5	5	0.6
1868-53-7	Dibromofluoromethane		84%				
17060-07-0	1,2-Dichloroethane-D4		104%				
2037-26-5	Toluene-D8		90%				
460-00-4	P-Bromofluorobenzene		92%				

Katahdin Analytical Services

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Tetra Tech NUS, Inc
Lab Smp Id: WT0246-8
Operator : JSS
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 07-FEB-2003 20:11

Client SDG: CTO233-4
Client Smp ID: 0103-DUP-06
Sample Date: 01-FEB-2003
Sample Point:
Date Received:04-FEB-2003 12:00
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 02/01/03
Received Date: 02/04/03
Extraction Date: 02/10/03
Analysis Date: 02/10/03
Report Date: 03/05/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0246-8
Client ID: 0103-DUP-06-DL
SDG: CTO233-4
Extracted by: JEY
Extraction Method: SW846 5030
Analyst: JEY
Analysis Method: SW846 8260B
Lab Prep Batch: WG1695
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	100	20	5	100	5
74-87-3	Chloromethane	U	100	20	5	100	6
75-01-4	Vinyl chloride	U	40	20	2	40	2
74-83-9	Bromomethane	U	100	20	5	100	19
75-00-3	Chloroethane	U	100	20	5	100	5
75-69-4	Trichlorofluoromethane	U	100	20	5	100	5
75-35-4	1,1-Dichloroethene	U	100	20	5	100	6
75-15-0	Carbon Disulfide	U	100	20	5	100	3
74-88-4	Iodomethane	U	200	20	10	200	5
107-02-8	Acrolein	U	1000	20	50	1000	59
75-09-2	Methylene Chloride	JB	23	20	5	100	7
67-64-1	Acetone	U	200	20	10	200	55
78-83-1	Isobutyl Alcohol	U	2000	20	100	2000	1600
156-60-5	trans-1,2-Dichloroethene		4000	20	5	100	14
107-05-1	Allyl Chloride	U	200	20	10	200	28
75-05-8	Acetonitrile	U	1000	20	50	1000	120
126-99-8	Chloroprene	U	200	20	10	200	32
126-98-7	Methacrylonitrile	U	1000	20	50	1000	210
107-12-0	Propionitrile	U	1000	20	50	1000	320
75-34-3	1,1-Dichloroethane	U	100	20	5	100	2
107-13-1	Acrylonitrile	U	200	20	10	200	16
108-05-4	Vinyl Acetate	U	100	20	5	100	7
156-59-2	cis-1,2-Dichloroethene		1300	20	5	100	9
540-59-0	1,2-Dichloroethylene (total)		5300	20	5	100	23
80-62-6	Methyl Methacrylate	U	200	20	10	200	28
67-66-3	Chloroform	U	100	20	5	100	4
56-23-5	Carbon Tetrachloride	U	100	20	5	100	6
71-55-6	1,1,1-Trichloroethane	U	100	20	5	100	14
78-93-3	2-Butanone	U	200	20	10	200	37
71-43-2	Benzene	U	100	20	5	100	3
97-63-2	Ethyl Methacrylate	U	200	20	10	200	18
107-06-2	1,2-Dichloroethane	U	100	20	5	100	6
79-01-6	Trichloroethene	U	100	20	5	100	12
74-95-3	Dibromomethane	U	100	20	5	100	7
78-87-5	1,2-Dichloropropane	U	100	20	5	100	4
75-27-4	Bromodichloromethane	U	100	20	5	100	5
10061-01-5	cis-1,3-dichloropropene	U	100	20	5	100	9
123-91-1	1,4-Dioxane	U	2000	20	100	2000	870
110-75-8	2-Chloroethylvinylether	U	100	20	5	100	10
108-88-3	Toluene	U	100	20	5	100	4
108-10-1	4-methyl-2-pentanone	U	200	20	10	200	36
127-18-4	Tetrachloroethene	U	100	20	5	100	7
10061-02-6	trans-1,3-Dichloropropene	U	100	20	5	100	8

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 02/01/03
Received Date: 02/04/03
Extraction Date: 02/10/03
Analysis Date: 02/10/03
Report Date: 03/05/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0246-8
Client ID: 0103-DUP-06-DL
SDG: CTO233-4
Extracted by: JEY
Extraction Method: SW846 5030
Analyst: JEY
Analysis Method: SW846 8260B
Lab Prep Batch: WG1695
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
79-00-5	1,1,2-Trichloroethane	U	100	20	5	100	6
124-48-1	Dibromochloromethane	U	100	20	5	100	5
106-93-4	1,2-Dibromoethane	U	100	20	5	100	4
591-78-6	2-Hexanone	U	200	20	10	200	31
108-90-7	Chlorobenzene	U	100	20	5	100	4
100-41-4	Ethylbenzene	U	100	20	5	100	2
630-20-6	1,1,1,2-Tetrachloroethane	U	100	20	5	100	4
1330-20-7	Xylenes (total)	U	100	20	5	100	4
	m+p-Xylenes	U	100	20	5	100	4
95-47-6	o-Xylene	U	100	20	5	100	3
100-42-5	Styrene	U	100	20	5	100	6
75-25-2	Bromoform	U	100	20	5	100	9
110-57-6	trans-1,4-Dichloro-2-Butene	U	200	20	10	200	10
79-34-5	1,1,2,2-Tetrachloroethane	U	100	20	5	100	8
96-18-4	1,2,3-Trichloropropane	U	100	20	5	100	18
76-01-1	Pentachloroethane	U	200	20	10	200	32
96-12-8	1,2-Dibromo-3-Chloropropane	U	100	20	5	100	13
1868-53-7	Dibromofluoromethane		89%				
17060-07-0	1,2-Dichloroethane-D4		103%				
2037-26-5	Toluene-D8		90%				
460-00-4	P-Bromofluorobenzene		100%				

Katahdin Analytical Services

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Tetra Tech NUS, Inc
Lab Smp Id: WT0246-8
Operator : JEY
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 10-FEB-2003 17:52

Client SDG: CTO233-4
Client Smp ID: 0103-DUP-06-DL
Sample Date: 01-FEB-2003
Sample Point:
Date Received:04-FEB-2003 12:00
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 02/01/03
Received Date: 02/04/03
Extraction Date: 02/10/03
Analysis Date: 02/10/03
Report Date: 03/05/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0246-9
Client ID: S1MW-5-0103
SDG: CTO233-4
Extracted by: JEY
Extraction Method: SW846 5030
Analyst: JEY
Analysis Method: SW846 8260B
Lab Prep Batch: WG1695
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	5	1.0	5	5	0.2
74-87-3	Chloromethane	U	5	1.0	5	5	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	5	1.0	5	5	0.9
75-00-3	Chloroethane	U	5	1.0	5	5	0.3
75-69-4	Trichlorofluoromethane	U	5	1.0	5	5	0.2
75-35-4	1,1-Dichloroethene	U	5	1.0	5	5	0.3
75-15-0	Carbon Disulfide	U	5	1.0	5	5	0.2
74-88-4	Iodomethane	U	10	1.0	10	10	0.2
107-02-8	Acrolein	U	50	1.0	50	50	3
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.3
67-64-1	Acetone	U	10	1.0	10	10	3
78-83-1	Isobutyl Alcohol	U	100	1.0	100	100	78
156-60-5	trans-1,2-Dichloroethene	U	5	1.0	5	5	0.7
107-05-1	Allyl Chloride	U	10	1.0	10	10	1
75-05-8	Acetonitrile	U	50	1.0	50	50	6
126-99-8	Chloroprene	U	10	1.0	10	10	2
126-98-7	Methacrylonitrile	U	50	1.0	50	50	11
107-12-0	Propionitrile	U	50	1.0	50	50	16
75-34-3	1,1-Dichloroethane	U	5	1.0	5	5	0.1
107-13-1	Acrylonitrile	U	10	1.0	10	10	0.8
108-05-4	Vinyl Acetate	U	5	1.0	5	5	0.3
156-59-2	cis-1,2-Dichloroethene	U	5	1.0	5	5	0.5
540-59-0	1,2-Dichloroethylene (total)	U	5	1.0	5	5	1
80-62-6	Methyl Methacrylate	U	10	1.0	10	10	1
67-66-3	Chloroform	U	5	1.0	5	5	0.2
56-23-5	Carbon Tetrachloride	U	5	1.0	5	5	0.3
71-55-6	1,1,1-Trichloroethane	U	5	1.0	5	5	0.7
78-93-3	2-Butanone	U	10	1.0	10	10	2
71-43-2	Benzene	U	5	1.0	5	5	0.1
97-63-2	Ethyl Methacrylate	U	10	1.0	10	10	0.9
107-06-2	1,2-Dichloroethane	U	5	1.0	5	5	0.3
79-01-6	Trichloroethene	U	5	1.0	5	5	0.6
74-95-3	Dibromomethane	U	5	1.0	5	5	0.4
78-87-5	1,2-Dichloropropane	U	5	1.0	5	5	0.2
75-27-4	Bromodichloromethane	U	5	1.0	5	5	0.2
10061-01-5	cis-1,3-dichloropropene	U	5	1.0	5	5	0.4
123-91-1	1,4-Dioxane	U	100	1.0	100	100	43
110-75-8	2-Chloroethylvinylether	U	5	1.0	5	5	0.5
108-88-3	Toluene	U	5	1.0	5	5	0.2
108-10-1	4-methyl-2-pentanone	U	10	1.0	10	10	2
127-18-4	Tetrachloroethene	U	5	1.0	5	5	0.4
10061-02-6	trans-1,3-Dichloropropene	U	5	1.0	5	5	0.4

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 02/01/03
Received Date: 02/04/03
Extraction Date: 02/10/03
Analysis Date: 02/10/03
Report Date: 03/05/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0246-9
Client ID: S1MW-5-0103
SDG: CTO233-4
Extracted by: JEY
Extraction Method: SW846 5030
Analyst: JEY
Analysis Method: SW846 8260B
Lab Prep Batch: WG1695
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
79-00-5	1,1,2-Trichloroethane	U	5	1.0	5	5	0.3
124-48-1	Dibromochloromethane	U	5	1.0	5	5	0.3
106-93-4	1,2-Dibromoethane	U	5	1.0	5	5	0.2
591-78-6	2-Hexanone	U	10	1.0	10	10	2
108-90-7	Chlorobenzene	U	5	1.0	5	5	0.2
100-41-4	Ethylbenzene	U	5	1.0	5	5	0.1
630-20-6	1,1,1,2-Tetrachloroethane	U	5	1.0	5	5	0.2
1330-20-7	Xylenes (total)	U	5	1.0	5	5	0.2
	m+p-Xylenes	U	5	1.0	5	5	0.2
95-47-6	o-Xylene	U	5	1.0	5	5	0.2
100-42-5	Styrene	U	5	1.0	5	5	0.3
75-25-2	Bromoform	U	5	1.0	5	5	0.4
110-57-6	trans-1,4-Dichloro-2-Butene	U	10	1.0	10	10	0.5
79-34-5	1,1,2,2-Tetrachloroethane	U	5	1.0	5	5	0.4
96-18-4	1,2,3-Trichloropropane	U	5	1.0	5	5	0.9
76-01-1	Pentachloroethane	U	10	1.0	10	10	2
96-12-8	1,2-Dibromo-3-Chloropropane	U	5	1.0	5	5	0.6
1868-53-7	Dibromofluoromethane		90%				
17060-07-0	1,2-Dichloroethane-D4		104%				
2037-26-5	Toluene-D8		91%				
460-00-4	P-Bromofluorobenzene		94%				

Katahdin Analytical Services

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Tetra Tech NUS, Inc
Lab Smp Id: WT0246-9
Operator : JEY
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 10-FEB-2003 15:15

Client SDG: CTO233-4
Client Smp ID: S1MW-5-0103
Sample Date: 01-FEB-2003
Sample Point:
Date Received:04-FEB-2003 12:00
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 01/31/03
Received Date: 02/01/03
Extraction Date: 02/07/03
Analysis Date: 02/07/03
Report Date: 03/05/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0233-6
Client ID: S1MW-7-0103
SDG: CTO233-4
Extracted by: JSS
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG1691
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	5	1.0	5	5	0.2
74-87-3	Chloromethane	U	5	1.0	5	5	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	5	1.0	5	5	0.9
75-00-3	Chloroethane	U	5	1.0	5	5	0.3
75-69-4	Trichlorofluoromethane	U	5	1.0	5	5	0.2
75-35-4	1,1-Dichloroethene	U	5	1.0	5	5	0.3
75-15-0	Carbon Disulfide	U	5	1.0	5	5	0.2
74-88-4	Iodomethane	U	10	1.0	10	10	0.2
107-02-8	Acrolein	U	50	1.0	50	50	3
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.3
67-64-1	Acetone	U	10	1.0	10	10	3
78-83-1	Isobutyl Alcohol	U	100	1.0	100	100	78
156-60-5	trans-1,2-Dichloroethene	U	5	1.0	5	5	0.7
107-05-1	Allyl Chloride	U	10	1.0	10	10	1
75-05-8	Acetonitrile	U	50	1.0	50	50	6
126-99-8	Chloroprene	U	10	1.0	10	10	2
126-98-7	Methacrylonitrile	U	50	1.0	50	50	11
107-12-0	Propionitrile	U	50	1.0	50	50	16
75-34-3	1,1-Dichloroethane	U	5	1.0	5	5	0.1
107-13-1	Acrylonitrile	U	10	1.0	10	10	0.8
108-05-4	Vinyl Acetate	U	5	1.0	5	5	0.3
156-59-2	cis-1,2-Dichloroethene	U	5	1.0	5	5	0.5
540-59-0	1,2-Dichloroethylene (total)	U	5	1.0	5	5	1
80-62-6	Methyl Methacrylate	U	10	1.0	10	10	1
67-66-3	Chloroform	U	5	1.0	5	5	0.2
56-23-5	Carbon Tetrachloride	U	5	1.0	5	5	0.3
71-55-6	1,1,1-Trichloroethane	U	5	1.0	5	5	0.7
78-93-3	2-Butanone	U	10	1.0	10	10	2
71-43-2	Benzene	U	5	1.0	5	5	0.1
97-63-2	Ethyl Methacrylate	U	10	1.0	10	10	0.9
107-06-2	1,2-Dichloroethane	U	5	1.0	5	5	0.3
79-01-6	Trichloroethene	U	5	1.0	5	5	0.6
74-95-3	Dibromomethane	U	5	1.0	5	5	0.4
78-87-5	1,2-Dichloropropane	U	5	1.0	5	5	0.2
75-27-4	Bromodichloromethane	U	5	1.0	5	5	0.2
10061-01-5	cis-1,3-dichloropropene	U	5	1.0	5	5	0.4
123-91-1	1,4-Dioxane	U	100	1.0	100	100	43
110-75-8	2-Chloroethylvinylether	U	5	1.0	5	5	0.5
108-88-3	Toluene	U	5	1.0	5	5	0.2
108-10-1	4-methyl-2-pentanone	U	10	1.0	10	10	2
127-18-4	Tetrachloroethene	U	5	1.0	5	5	0.4
10061-02-6	trans-1,3-Dichloropropene	U	5	1.0	5	5	0.4

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 01/31/03
Received Date: 02/01/03
Extraction Date: 02/07/03
Analysis Date: 02/07/03
Report Date: 03/05/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0233-6
Client ID: S1MW-7-0103
SDG: CTO233-4
Extracted by: JSS
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG1691
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
79-00-5	1,1,2-Trichloroethane	U	5	1.0	5	5	0.3
124-48-1	Dibromochloromethane	U	5	1.0	5	5	0.3
106-93-4	1,2-Dibromoethane	U	5	1.0	5	5	0.2
591-78-6	2-Hexanone	U	10	1.0	10	10	2
108-90-7	Chlorobenzene	U	5	1.0	5	5	0.2
100-41-4	Ethylbenzene	U	5	1.0	5	5	0.1
630-20-6	1,1,1,2-Tetrachloroethane	U	5	1.0	5	5	0.2
1330-20-7	Xylenes (total)	U	5	1.0	5	5	0.2
	m+p-Xylenes	U	5	1.0	5	5	0.2
95-47-6	o-Xylene	U	5	1.0	5	5	0.2
100-42-5	Styrene	U	5	1.0	5	5	0.3
75-25-2	Bromoform	U	5	1.0	5	5	0.4
110-57-6	trans-1,4-Dichloro-2-Butene	U	10	1.0	10	10	0.5
79-34-5	1,1,2,2-Tetrachloroethane	U	5	1.0	5	5	0.4
96-18-4	1,2,3-Trichloropropane	U	5	1.0	5	5	0.9
76-01-1	Pentachloroethane	U	10	1.0	10	10	2
96-12-8	1,2-Dibromo-3-Chloropropane	U	5	1.0	5	5	0.6
1868-53-7	Dibromofluoromethane		92%				
17060-07-0	1,2-Dichloroethane-D4		105%				
2037-26-5	Toluene-D8		94%				
460-00-4	P-Bromofluorobenzene		97%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 02/03/03
Received Date: 02/04/03
Extraction Date: 02/07/03
Analysis Date: 02/07/03
Report Date: 03/05/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0246-2
Client ID: S9MW-12-0103
SDG: CTO233-4
Extracted by: JSS
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG1691
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	5	1.0	5	5	0.2
74-87-3	Chloromethane	U	5	1.0	5	5	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	5	1.0	5	5	0.9
75-00-3	Chloroethane	U	5	1.0	5	5	0.3
75-69-4	Trichlorofluoromethane	U	5	1.0	5	5	0.2
75-35-4	1,1-Dichloroethene	U	5	1.0	5	5	0.3
75-15-0	Carbon Disulfide	U	5	1.0	5	5	0.2
74-88-4	Iodomethane	U	10	1.0	10	10	0.2
107-02-8	Acrolein	U	50	1.0	50	50	3
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.3
67-64-1	Acetone	U	10	1.0	10	10	3
78-83-1	Isobutyl Alcohol	U	100	1.0	100	100	78
156-60-5	trans-1,2-Dichloroethene	U	5	1.0	5	5	0.7
107-05-1	Allyl Chloride	U	10	1.0	10	10	1
75-05-8	Acetonitrile	U	50	1.0	50	50	6
126-99-8	Chloroprene	U	10	1.0	10	10	2
126-98-7	Methacrylonitrile	U	50	1.0	50	50	11
107-12-0	Propionitrile	U	50	1.0	50	50	16
75-34-3	1,1-Dichloroethane	U	5	1.0	5	5	0.1
107-13-1	Acrylonitrile	U	10	1.0	10	10	0.8
108-05-4	Vinyl Acetate	U	5	1.0	5	5	0.3
156-59-2	cis-1,2-Dichloroethene	U	5	1.0	5	5	0.5
540-59-0	1,2-Dichloroethylene (total)	U	5	1.0	5	5	1
80-62-6	Methyl Methacrylate	U	10	1.0	10	10	1
67-66-3	Chloroform	U	5	1.0	5	5	0.2
56-23-5	Carbon Tetrachloride	U	5	1.0	5	5	0.3
71-55-6	1,1,1-Trichloroethane	U	5	1.0	5	5	0.7
78-93-3	2-Butanone	U	10	1.0	10	10	2
71-43-2	Benzene	U	5	1.0	5	5	0.1
97-63-2	Ethyl Methacrylate	U	10	1.0	10	10	0.9
107-06-2	1,2-Dichloroethane	U	5	1.0	5	5	0.3
79-01-6	Trichloroethene	U	5	1.0	5	5	0.6
74-95-3	Dibromomethane	U	5	1.0	5	5	0.4
78-87-5	1,2-Dichloropropane	U	5	1.0	5	5	0.2
75-27-4	Bromodichloromethane	U	5	1.0	5	5	0.2
10061-01-5	cis-1,3-dichloropropene	U	5	1.0	5	5	0.4
123-91-1	1,4-Dioxane	U	100	1.0	100	100	43
110-75-8	2-Chloroethylvinylether	U	5	1.0	5	5	0.5
108-88-3	Toluene	U	5	1.0	5	5	0.2
108-10-1	4-methyl-2-pentanone	U	10	1.0	10	10	2
127-18-4	Tetrachloroethene	U	5	1.0	5	5	0.4
10061-02-6	trans-1,3-Dichloropropene	U	5	1.0	5	5	0.4

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 02/03/03
Received Date: 02/04/03
Extraction Date: 02/07/03
Analysis Date: 02/07/03
Report Date: 03/05/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0246-2
Client ID: S9MW-12-0103
SDG: CTO233-4
Extracted by: JSS
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG1691
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
79-00-5	1,1,2-Trichloroethane	U	5	1.0	5	5	0.3
124-48-1	Dibromochloromethane	U	5	1.0	5	5	0.3
106-93-4	1,2-Dibromoethane	U	5	1.0	5	5	0.2
591-78-6	2-Hexanone	U	10	1.0	10	10	2
108-90-7	Chlorobenzene	U	5	1.0	5	5	0.2
100-41-4	Ethylbenzene	U	5	1.0	5	5	0.1
630-20-6	1,1,1,2-Tetrachloroethane	U	5	1.0	5	5	0.2
1330-20-7	Xylenes (total)	U	5	1.0	5	5	0.2
	m+p-Xylenes	U	5	1.0	5	5	0.2
95-47-6	o-Xylene	U	5	1.0	5	5	0.2
100-42-5	Styrene	U	5	1.0	5	5	0.3
75-25-2	Bromoform	U	5	1.0	5	5	0.4
110-57-6	trans-1,4-Dichloro-2-Butene	U	10	1.0	10	10	0.5
79-34-5	1,1,2,2-Tetrachloroethane	U	5	1.0	5	5	0.4
96-18-4	1,2,3-Trichloropropane	U	5	1.0	5	5	0.9
76-01-1	Pentachloroethane	U	10	1.0	10	10	2
96-12-8	1,2-Dibromo-3-Chloropropane	U	5	1.0	5	5	0.6
1868-53-7	Dibromofluoromethane		87%				
17060-07-0	1,2-Dichloroethane-D4		102%				
2037-26-5	Toluene-D8		93%				
460-00-4	P-Bromofluorobenzene		100%				

Katahdin Analytical Services

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Tetra Tech NUS, Inc
Lab Smp Id: WT0246-2
Operator : JSS
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 07-FEB-2003 16:52

Client SDG: CTO233-4
Client Smp ID: S9MW-12-0103
Sample Date: 03-FEB-2003
Sample Point:
Date Received:04-FEB-2003 12:00
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 02/01/03
Received Date: 02/04/03
Extraction Date: 02/07/03
Analysis Date: 02/07/03
Report Date: 03/05/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0246-3
Client ID: S9MW-14-0103
SDG: CTO233-4
Extracted by: JSS
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG1691
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	5	1.0	5	5	0.2
74-87-3	Chloromethane	U	5	1.0	5	5	0.3
75-01-4	Vinyl chloride		2	1.0	2	2	0.1
74-83-9	Bromomethane	U	5	1.0	5	5	0.9
75-00-3	Chloroethane	U	5	1.0	5	5	0.3
75-69-4	Trichlorofluoromethane	U	5	1.0	5	5	0.2
75-35-4	1,1-Dichloroethene	J	0.9	1.0	5	5	0.3
75-15-0	Carbon Disulfide	U	5	1.0	5	5	0.2
74-88-4	Iodomethane	U	10	1.0	10	10	0.2
107-02-8	Acrolein	U	50	1.0	50	50	3
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.3
67-64-1	Acetone	U	10	1.0	10	10	3
78-83-1	Isobutyl Alcohol	U	100	1.0	100	100	78
156-60-5	trans-1,2-Dichloroethene	E	3400	1.0	5	5	0.7
107-05-1	Allyl Chloride	U	10	1.0	10	10	1
75-05-8	Acetonitrile	U	50	1.0	50	50	6
126-99-8	Chloroprene	U	10	1.0	10	10	2
126-98-7	Methacrylonitrile	U	50	1.0	50	50	11
107-12-0	Propionitrile	U	50	1.0	50	50	16
75-34-3	1,1-Dichloroethane	U	5	1.0	5	5	0.1
107-13-1	Acrylonitrile	U	10	1.0	10	10	0.8
108-05-4	Vinyl Acetate	U	5	1.0	5	5	0.3
156-59-2	cis-1,2-Dichloroethene	E	1200	1.0	5	5	0.5
540-59-0	1,2-Dichloroethylene (total)	E	4600	1.0	5	5	1
80-62-6	Methyl Methacrylate	U	10	1.0	10	10	1
67-66-3	Chloroform	U	5	1.0	5	5	0.2
56-23-5	Carbon Tetrachloride	U	5	1.0	5	5	0.3
71-55-6	1,1,1-Trichloroethane	U	5	1.0	5	5	0.7
78-93-3	2-Butanone	U	10	1.0	10	10	2
71-43-2	Benzene	J	1	1.0	5	5	0.1
97-63-2	Ethyl Methacrylate	U	10	1.0	10	10	0.9
107-06-2	1,2-Dichloroethane	U	5	1.0	5	5	0.3
79-01-6	Trichloroethene	U	5	1.0	5	5	0.6
74-95-3	Dibromomethane	U	5	1.0	5	5	0.4
78-87-5	1,2-Dichloropropane	U	5	1.0	5	5	0.2
75-27-4	Bromodichloromethane	U	5	1.0	5	5	0.2
10061-01-5	cis-1,3-dichloropropene	U	5	1.0	5	5	0.4
123-91-1	1,4-Dioxane	U	100	1.0	100	100	43
110-75-8	2-Chloroethylvinylether	U	5	1.0	5	5	0.5
108-88-3	Toluene	U	5	1.0	5	5	0.2
108-10-1	4-methyl-2-pentanone	U	10	1.0	10	10	2
127-18-4	Tetrachloroethene	U	5	1.0	5	5	0.4
10061-02-6	trans-1,3-Dichloropropene	U	5	1.0	5	5	0.4

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 02/01/03
Received Date: 02/04/03
Extraction Date: 02/07/03
Analysis Date: 02/07/03
Report Date: 03/05/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0246-3
Client ID: S9MW-14-0103
SDG: CTO233-4
Extracted by: JSS
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG1691
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
79-00-5	1,1,2-Trichloroethane	U	5	1.0	5	5	0.3
124-48-1	Dibromochloromethane	U	5	1.0	5	5	0.3
106-93-4	1,2-Dibromoethane	U	5	1.0	5	5	0.2
591-78-6	2-Hexanone	U	10	1.0	10	10	2
108-90-7	Chlorobenzene	U	5	1.0	5	5	0.2
100-41-4	Ethylbenzene	U	5	1.0	5	5	0.1
630-20-6	1,1,1,2-Tetrachloroethane	U	5	1.0	5	5	0.2
1330-20-7	Xylenes (total)	J	0.3	1.0	5	5	0.2
	m+p-Xylenes	J	0.3	1.0	5	5	0.2
95-47-6	o-Xylene	U	5	1.0	5	5	0.2
100-42-5	Styrene	U	5	1.0	5	5	0.3
75-25-2	Bromoform	U	5	1.0	5	5	0.4
110-57-6	trans-1,4-Dichloro-2-Butene	U	10	1.0	10	10	0.5
79-34-5	1,1,2,2-Tetrachloroethane	U	5	1.0	5	5	0.4
96-18-4	1,2,3-Trichloropropane	U	5	1.0	5	5	0.9
76-01-1	Pentachloroethane	U	10	1.0	10	10	2
96-12-8	1,2-Dibromo-3-Chloropropane	U	5	1.0	5	5	0.6
1868-53-7	Dibromofluoromethane		84%				
17060-07-0	1,2-Dichloroethane-D4		101%				
2037-26-5	Toluene-D8		92%				
460-00-4	P-Bromofluorobenzene		96%				

Katahdin Analytical Services

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Tetra Tech NUS, Inc
Lab Smp Id: WT0246-3
Operator : JSS
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 07-FEB-2003 17:25

Client SDG: CTO233-4
Client Smp ID: S9MW-14-0103
Sample Date: 01-FEB-2003
Sample Point:
Date Received:04-FEB-2003 12:00
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 02/01/03
Received Date: 02/04/03
Extraction Date: 02/10/03
Analysis Date: 02/10/03
Report Date: 03/05/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0246-3
Client ID: S9MW-14-0103-DL
SDG: CTO233-4
Extracted by: JEY
Extraction Method: SW846 5030
Analyst: JEY
Analysis Method: SW846 8260B
Lab Prep Batch: WG1695
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	100	20	5	100	5
74-87-3	Chloromethane	U	100	20	5	100	6
75-01-4	Vinyl chloride	U	40	20	2	40	2
74-83-9	Bromomethane	U	100	20	5	100	19
75-00-3	Chloroethane	U	100	20	5	100	5
75-69-4	Trichlorofluoromethane	U	100	20	5	100	5
75-35-4	1,1-Dichloroethene	U	100	20	5	100	6
75-15-0	Carbon Disulfide	U	100	20	5	100	3
74-88-4	Iodomethane	U	200	20	10	200	5
107-02-8	Acrolein	U	1000	20	50	1000	59
75-09-2	Methylene Chloride	JB	20	20	5	100	7
67-64-1	Acetone	U	200	20	10	200	55
78-83-1	Isobutyl Alcohol	U	2000	20	100	2000	1600
156-60-5	trans-1,2-Dichloroethene		3000	20	5	100	14
107-05-1	Allyl Chloride	U	200	20	10	200	28
75-05-8	Acetonitrile	U	1000	20	50	1000	120
126-99-8	Chloroprene	U	200	20	10	200	32
126-98-7	Methacrylonitrile	U	1000	20	50	1000	210
107-12-0	Propionitrile	U	1000	20	50	1000	320
75-34-3	1,1-Dichloroethane	U	100	20	5	100	2
107-13-1	Acrylonitrile	U	200	20	10	200	16
108-05-4	Vinyl Acetate	U	100	20	5	100	7
156-59-2	cis-1,2-Dichloroethene		1000	20	5	100	9
540-59-0	1,2-Dichloroethylene (total)		4100	20	5	100	23
80-62-6	Methyl Methacrylate	U	200	20	10	200	28
67-66-3	Chloroform	U	100	20	5	100	4
56-23-5	Carbon Tetrachloride	U	100	20	5	100	6
71-55-6	1,1,1-Trichloroethane	U	100	20	5	100	14
78-93-3	2-Butanone	U	200	20	10	200	37
71-43-2	Benzene	U	100	20	5	100	3
97-63-2	Ethyl Methacrylate	U	200	20	10	200	18
107-06-2	1,2-Dichloroethane	U	100	20	5	100	6
79-01-6	Trichloroethene	U	100	20	5	100	12
74-95-3	Dibromomethane	U	100	20	5	100	7
78-87-5	1,2-Dichloropropane	U	100	20	5	100	4
75-27-4	Bromodichloromethane	U	100	20	5	100	5
10061-01-5	cis-1,3-dichloropropene	U	100	20	5	100	9
123-91-1	1,4-Dioxane	U	2000	20	100	2000	870
110-75-8	2-Chloroethylvinylether	U	100	20	5	100	10
108-88-3	Toluene	U	100	20	5	100	4
108-10-1	4-methyl-2-pentanone	U	200	20	10	200	36
127-18-4	Tetrachloroethene	U	100	20	5	100	7
10061-02-6	trans-1,3-Dichloropropene	U	100	20	5	100	8

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 02/01/03
Received Date: 02/04/03
Extraction Date: 02/10/03
Analysis Date: 02/10/03
Report Date: 03/05/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0246-3
Client ID: S9MW-14-0103-DL
SDG: CTO233-4
Extracted by: JEY
Extraction Method: SW846 5030
Analyst: JEY
Analysis Method: SW846 8260B
Lab Prep Batch: WG1695
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
79-00-5	1,1,2-Trichloroethane	U	100	20	5	100	6
124-48-1	Dibromochloromethane	U	100	20	5	100	5
106-93-4	1,2-Dibromoethane	U	100	20	5	100	4
591-78-6	2-Hexanone	U	200	20	10	200	31
108-90-7	Chlorobenzene	U	100	20	5	100	4
100-41-4	Ethylbenzene	U	100	20	5	100	2
630-20-6	1,1,1,2-Tetrachloroethane	U	100	20	5	100	4
1330-20-7	Xylenes (total)	U	100	20	5	100	4
	m+p-Xylenes	U	100	20	5	100	4
95-47-6	o-Xylene	U	100	20	5	100	3
100-42-5	Styrene	U	100	20	5	100	6
75-25-2	Bromoform	U	100	20	5	100	9
110-57-6	trans-1,4-Dichloro-2-Butene	U	200	20	10	200	10
79-34-5	1,1,2,2-Tetrachloroethane	U	100	20	5	100	8
96-18-4	1,2,3-Trichloropropane	U	100	20	5	100	18
76-01-1	Pentachloroethane	U	200	20	10	200	32
96-12-8	1,2-Dibromo-3-Chloropropane	U	100	20	5	100	13
1868-53-7	Dibromofluoromethane		83%				
17060-07-0	1,2-Dichloroethane-D4		93%				
2037-26-5	Toluene-D8		88%				
460-00-4	P-Bromofluorobenzene		96%				

Katahdin Analytical Services

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Tetra Tech NUS, Inc
Lab Smp Id: WT0246-3
Operator : JEY
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 10-FEB-2003 15:48

Client SDG: CTO233-4
Client Smp ID: S9MW-14-0103-DL
Sample Date: 01-FEB-2003
Sample Point:
Date Received:04-FEB-2003 12:00
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 02/01/03
Received Date: 02/04/03
Extraction Date: 02/07/03
Analysis Date: 02/07/03
Report Date: 03/05/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0246-4
Client ID: S9MW-15-0103
SDG: CTO233-4
Extracted by: JSS
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG1691
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	5	1.0	5	5	0.2
74-87-3	Chloromethane	U	5	1.0	5	5	0.3
75-01-4	Vinyl chloride		2	1.0	2	2	0.1
74-83-9	Bromomethane	U	5	1.0	5	5	0.9
75-00-3	Chloroethane	U	5	1.0	5	5	0.3
75-69-4	Trichlorofluoromethane	U	5	1.0	5	5	0.2
75-35-4	1,1-Dichloroethene	J	0.4	1.0	5	5	0.3
75-15-0	Carbon Disulfide	U	5	1.0	5	5	0.2
74-88-4	Iodomethane	U	10	1.0	10	10	0.2
107-02-8	Acrolein	U	50	1.0	50	50	3
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.3
67-64-1	Acetone	U	10	1.0	10	10	3
78-83-1	Isobutyl Alcohol	U	100	1.0	100	100	78
156-60-5	trans-1,2-Dichloroethene	E	720	1.0	5	5	0.7
107-05-1	Allyl Chloride	U	10	1.0	10	10	1
75-05-8	Acetonitrile	U	50	1.0	50	50	6
126-99-8	Chloroprene	U	10	1.0	10	10	2
126-98-7	Methacrylonitrile	U	50	1.0	50	50	11
107-12-0	Propionitrile	U	50	1.0	50	50	16
75-34-3	1,1-Dichloroethane	U	5	1.0	5	5	0.1
107-13-1	Acrylonitrile	U	10	1.0	10	10	0.8
108-05-4	Vinyl Acetate	U	5	1.0	5	5	0.3
156-59-2	cis-1,2-Dichloroethene	E	260	1.0	5	5	0.5
540-59-0	1,2-Dichloroethylene (total)	E	980	1.0	5	5	1
80-62-6	Methyl Methacrylate	U	10	1.0	10	10	1
67-66-3	Chloroform	U	5	1.0	5	5	0.2
56-23-5	Carbon Tetrachloride	U	5	1.0	5	5	0.3
71-55-6	1,1,1-Trichloroethane	U	5	1.0	5	5	0.7
78-93-3	2-Butanone	U	10	1.0	10	10	2
71-43-2	Benzene	J	0.3	1.0	5	5	0.1
97-63-2	Ethyl Methacrylate	U	10	1.0	10	10	0.9
107-06-2	1,2-Dichloroethane	U	5	1.0	5	5	0.3
79-01-6	Trichloroethene	J	2	1.0	5	5	0.6
74-95-3	Dibromomethane	U	5	1.0	5	5	0.4
78-87-5	1,2-Dichloropropane	U	5	1.0	5	5	0.2
75-27-4	Bromodichloromethane	U	5	1.0	5	5	0.2
10061-01-5	cis-1,3-dichloropropene	U	5	1.0	5	5	0.4
123-91-1	1,4-Dioxane	U	100	1.0	100	100	43
110-75-8	2-Chloroethylvinylether	U	5	1.0	5	5	0.5
108-88-3	Toluene	U	5	1.0	5	5	0.2
108-10-1	4-methyl-2-pentanone	U	10	1.0	10	10	2
127-18-4	Tetrachloroethene	U	5	1.0	5	5	0.4
10061-02-6	trans-1,3-Dichloropropene	U	5	1.0	5	5	0.4

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 02/01/03
Received Date: 02/04/03
Extraction Date: 02/07/03
Analysis Date: 02/07/03
Report Date: 03/05/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0246-4
Client ID: S9MW-15-0103
SDG: CTO233-4
Extracted by: JSS
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG1691
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
79-00-5	1,1,2-Trichloroethane	U	5	1.0	5	5	0.3
124-48-1	Dibromochloromethane	U	5	1.0	5	5	0.3
106-93-4	1,2-Dibromoethane	U	5	1.0	5	5	0.2
591-78-6	2-Hexanone	U	10	1.0	10	10	2
108-90-7	Chlorobenzene	U	5	1.0	5	5	0.2
100-41-4	Ethylbenzene	U	5	1.0	5	5	0.1
630-20-6	1,1,1,2-Tetrachloroethane	U	5	1.0	5	5	0.2
1330-20-7	Xylenes (total)	U	5	1.0	5	5	0.2
	m+p-Xylenes	U	5	1.0	5	5	0.2
95-47-6	o-Xylene	U	5	1.0	5	5	0.2
100-42-5	Styrene	U	5	1.0	5	5	0.3
75-25-2	Bromoform	U	5	1.0	5	5	0.4
110-57-6	trans-1,4-Dichloro-2-Butene	U	10	1.0	10	10	0.5
79-34-5	1,1,2,2-Tetrachloroethane	U	5	1.0	5	5	0.4
96-18-4	1,2,3-Trichloropropane	U	5	1.0	5	5	0.9
76-01-1	Pentachloroethane	U	10	1.0	10	10	2
96-12-8	1,2-Dibromo-3-Chloropropane	U	5	1.0	5	5	0.6
1868-53-7	Dibromofluoromethane		90%				
17060-07-0	1,2-Dichloroethane-D4		103%				
2037-26-5	Toluene-D8		92%				
460-00-4	P-Bromofluorobenzene		97%				

Katahdin Analytical Services

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Tetra Tech NUS, Inc
Lab Smp Id: WT0246-4
Operator : JSS
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 07-FEB-2003 17:58

Client SDG: CTO233-4
Client Smp ID: S9MW-15-0103
Sample Date: 01-FEB-2003
Sample Point:
Date Received:04-FEB-2003 12:00
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 02/01/03
Received Date: 02/04/03
Extraction Date: 02/10/03
Analysis Date: 02/10/03
Report Date: 03/05/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0246-4
Client ID: S9MW-15-0103-DL
SDG: CTO233-4
Extracted by: JEY
Extraction Method: SW846 5030
Analyst: JEY
Analysis Method: SW846 8260B
Lab Prep Batch: WG1695
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	25	5.0	5	25	1
74-87-3	Chloromethane	U	25	5.0	5	25	1
75-01-4	Vinyl chloride	U	10	5.0	2	10	0.5
74-83-9	Bromomethane	U	25	5.0	5	25	5
75-00-3	Chloroethane	U	25	5.0	5	25	1
75-69-4	Trichlorofluoromethane	U	25	5.0	5	25	1
75-35-4	1,1-Dichloroethene	U	25	5.0	5	25	1
75-15-0	Carbon Disulfide	U	25	5.0	5	25	0.8
74-88-4	Iodomethane	U	50	5.0	10	50	1
107-02-8	Acrolein	U	250	5.0	50	250	15
75-09-2	Methylene Chloride	JB	7	5.0	5	25	2
67-64-1	Acetone	U	50	5.0	10	50	14
78-83-1	Isobutyl Alcohol	U	500	5.0	100	500	390
156-60-5	trans-1,2-Dichloroethene		520	5.0	5	25	3
107-05-1	Allyl Chloride	U	50	5.0	10	50	7
75-05-8	Acetonitrile	U	250	5.0	50	250	30
126-99-8	Chloroprene	U	50	5.0	10	50	8
126-98-7	Methacrylonitrile	U	250	5.0	50	250	53
107-12-0	Propionitrile	U	250	5.0	50	250	79
75-34-3	1,1-Dichloroethane	U	25	5.0	5	25	0.6
107-13-1	Acrylonitrile	U	50	5.0	10	50	4
108-05-4	Vinyl Acetate	U	25	5.0	5	25	2
156-59-2	cis-1,2-Dichloroethene		210	5.0	5	25	2
540-59-0	1,2-Dichloroethylene (total)		740	5.0	5	25	6
80-62-6	Methyl Methacrylate	U	50	5.0	10	50	7
67-66-3	Chloroform	U	25	5.0	5	25	0.9
56-23-5	Carbon Tetrachloride	U	25	5.0	5	25	2
71-55-6	1,1,1-Trichloroethane	U	25	5.0	5	25	3
78-93-3	2-Butanone	U	50	5.0	10	50	9
71-43-2	Benzene	U	25	5.0	5	25	0.6
97-63-2	Ethyl Methacrylate	U	50	5.0	10	50	4
107-06-2	1,2-Dichloroethane	U	25	5.0	5	25	1
79-01-6	Trichloroethene	U	25	5.0	5	25	3
74-95-3	Dibromomethane	U	25	5.0	5	25	2
78-87-5	1,2-Dichloropropane	U	25	5.0	5	25	1
75-27-4	Bromodichloromethane	U	25	5.0	5	25	1
10061-01-5	cis-1,3-dichloropropene	U	25	5.0	5	25	2
123-91-1	1,4-Dioxane	U	500	5.0	100	500	220
110-75-8	2-Chloroethylvinylether	U	25	5.0	5	25	3
108-88-3	Toluene	U	25	5.0	5	25	0.9
108-10-1	4-methyl-2-pentanone	U	50	5.0	10	50	9
127-18-4	Tetrachloroethene	U	25	5.0	5	25	2
10061-02-6	trans-1,3-Dichloropropene	U	25	5.0	5	25	2

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 02/01/03
Received Date: 02/04/03
Extraction Date: 02/10/03
Analysis Date: 02/10/03
Report Date: 03/05/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0246-4
Client ID: S9MW-15-0103-DL
SDG: CTO233-4
Extracted by: JEY
Extraction Method: SW846 5030
Analyst: JEY
Analysis Method: SW846 8260B
Lab Prep Batch: WG1695
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
79-00-5	1,1,2-Trichloroethane	U	25	5.0	5	25	2
124-48-1	Dibromochloromethane	U	25	5.0	5	25	1
106-93-4	1,2-Dibromoethane	U	25	5.0	5	25	1
591-78-6	2-Hexanone	U	50	5.0	10	50	8
108-90-7	Chlorobenzene	U	25	5.0	5	25	1
100-41-4	Ethylbenzene	U	25	5.0	5	25	0.6
630-20-6	1,1,1,2-Tetrachloroethane	U	25	5.0	5	25	1.0
1330-20-7	Xylenes (total)	U	25	5.0	5	25	1
	m+p-Xylenes	U	25	5.0	5	25	0.9
95-47-6	o-Xylene	U	25	5.0	5	25	0.8
100-42-5	Styrene	U	25	5.0	5	25	1
75-25-2	Bromoform	U	25	5.0	5	25	2
110-57-6	trans-1,4-Dichloro-2-Butene	U	50	5.0	10	50	2
79-34-5	1,1,2,2-Tetrachloroethane	U	25	5.0	5	25	2
96-18-4	1,2,3-Trichloropropane	U	25	5.0	5	25	5
76-01-1	Pentachloroethane	U	50	5.0	10	50	8
96-12-8	1,2-Dibromo-3-Chloropropane	U	25	5.0	5	25	3
1868-53-7	Dibromofluoromethane		91%				
17060-07-0	1,2-Dichloroethane-D4		102%				
2037-26-5	Toluene-D8		90%				
460-00-4	P-Bromofluorobenzene		94%				

Katahdin Analytical Services

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Tetra Tech NUS, Inc
Lab Smp Id: WT0246-4
Operator : JEY
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 10-FEB-2003 16:21

Client SDG: CTO233-4
Client Smp ID: S9MW-15-0103-DL
Sample Date: 01-FEB-2003
Sample Point:
Date Received:04-FEB-2003 12:00
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 02/02/03
Received Date: 02/04/03
Extraction Date: 02/10/03
Analysis Date: 02/10/03
Report Date: 03/05/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0246-5
Client ID: S9MW-21-0103
SDG: CTO233-4
Extracted by: JEY
Extraction Method: SW846 5030
Analyst: JEY
Analysis Method: SW846 8260B
Lab Prep Batch: WG1695
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	5	1.0	5	5	0.2
74-87-3	Chloromethane	U	5	1.0	5	5	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	5	1.0	5	5	0.9
75-00-3	Chloroethane	U	5	1.0	5	5	0.3
75-69-4	Trichlorofluoromethane	U	5	1.0	5	5	0.2
75-35-4	1,1-Dichloroethene	U	5	1.0	5	5	0.3
75-15-0	Carbon Disulfide	U	5	1.0	5	5	0.2
74-88-4	Iodomethane	U	10	1.0	10	10	0.2
107-02-8	Acrolein	U	50	1.0	50	50	3
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.3
67-64-1	Acetone	U	10	1.0	10	10	3
78-83-1	Isobutyl Alcohol	U	100	1.0	100	100	78
156-60-5	trans-1,2-Dichloroethene		190	1.0	5	5	0.7
107-05-1	Allyl Chloride	U	10	1.0	10	10	1
75-05-8	Acetonitrile	U	50	1.0	50	50	6
126-99-8	Chloroprene	U	10	1.0	10	10	2
126-98-7	Methacrylonitrile	U	50	1.0	50	50	11
107-12-0	Propionitrile	U	50	1.0	50	50	16
75-34-3	1,1-Dichloroethane	U	5	1.0	5	5	0.1
107-13-1	Acrylonitrile	U	10	1.0	10	10	0.8
108-05-4	Vinyl Acetate	U	5	1.0	5	5	0.3
156-59-2	cis-1,2-Dichloroethene		87	1.0	5	5	0.5
540-59-0	1,2-Dichloroethylene (total)		280	1.0	5	5	1
80-62-6	Methyl Methacrylate	U	10	1.0	10	10	1
67-66-3	Chloroform	U	5	1.0	5	5	0.2
56-23-5	Carbon Tetrachloride	U	5	1.0	5	5	0.3
71-55-6	1,1,1-Trichloroethane	U	5	1.0	5	5	0.7
78-93-3	2-Butanone	U	10	1.0	10	10	2
71-43-2	Benzene	U	5	1.0	5	5	0.1
97-63-2	Ethyl Methacrylate	U	10	1.0	10	10	0.9
107-06-2	1,2-Dichloroethane	U	5	1.0	5	5	0.3
79-01-6	Trichloroethene	U	5	1.0	5	5	0.6
74-95-3	Dibromomethane	U	5	1.0	5	5	0.4
78-87-5	1,2-Dichloropropane	U	5	1.0	5	5	0.2
75-27-4	Bromodichloromethane	U	5	1.0	5	5	0.2
10061-01-5	cis-1,3-dichloropropene	U	5	1.0	5	5	0.4
123-91-1	1,4-Dioxane	U	100	1.0	100	100	43
110-75-8	2-Chloroethylvinylether	U	5	1.0	5	5	0.5
108-88-3	Toluene	U	5	1.0	5	5	0.2
108-10-1	4-methyl-2-pentanone	U	10	1.0	10	10	2
127-18-4	Tetrachloroethene	U	5	1.0	5	5	0.4
10061-02-6	trans-1,3-Dichloropropene	U	5	1.0	5	5	0.4

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 02/02/03
Received Date: 02/04/03
Extraction Date: 02/10/03
Analysis Date: 02/10/03
Report Date: 03/05/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0246-5
Client ID: S9MW-21-0103
SDG: CTO233-4
Extracted by: JEY
Extraction Method: SW846 5030
Analyst: JEY
Analysis Method: SW846 8260B
Lab Prep Batch: WG1695
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
79-00-5	1,1,2-Trichloroethane	U	5	1.0	5	5	0.3
124-48-1	Dibromochloromethane	U	5	1.0	5	5	0.3
106-93-4	1,2-Dibromoethane	U	5	1.0	5	5	0.2
591-78-6	2-Hexanone	U	10	1.0	10	10	2
108-90-7	Chlorobenzene	U	5	1.0	5	5	0.2
100-41-4	Ethylbenzene	U	5	1.0	5	5	0.1
630-20-6	1,1,1,2-Tetrachloroethane	U	5	1.0	5	5	0.2
1330-20-7	Xylenes (total)	U	5	1.0	5	5	0.2
	m+p-Xylenes	U	5	1.0	5	5	0.2
95-47-6	o-Xylene	U	5	1.0	5	5	0.2
100-42-5	Styrene	U	5	1.0	5	5	0.3
75-25-2	Bromoform	U	5	1.0	5	5	0.4
110-57-6	trans-1,4-Dichloro-2-Butene	U	10	1.0	10	10	0.5
79-34-5	1,1,2,2-Tetrachloroethane	U	5	1.0	5	5	0.4
96-18-4	1,2,3-Trichloropropane	U	5	1.0	5	5	0.9
76-01-1	Pentachloroethane	U	10	1.0	10	10	2
96-12-8	1,2-Dibromo-3-Chloropropane	U	5	1.0	5	5	0.6
1868-53-7	Dibromofluoromethane		78%				
17060-07-0	1,2-Dichloroethane-D4		91%				
2037-26-5	Toluene-D8		88%				
460-00-4	P-Bromofluorobenzene		90%				

Katahdin Analytical Services

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Tetra Tech NUS, Inc
Lab Smp Id: WT0246-5
Operator : JEY
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 10-FEB-2003 14:42

Client SDG: CTO233-4
Client Smp ID: S9MW-21-0103
Sample Date: 02-FEB-2003
Sample Point:
Date Received:04-FEB-2003 12:00
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 02/02/03
Received Date: 02/04/03
Extraction Date: 02/07/03
Analysis Date: 02/07/03
Report Date: 03/05/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0246-13
Client ID: S9MW-22-0103
SDG: CTO233-4
Extracted by: JSS
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG1691
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	5	1.0	5	5	0.2
74-87-3	Chloromethane	U	5	1.0	5	5	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	5	1.0	5	5	0.9
75-00-3	Chloroethane	U	5	1.0	5	5	0.3
75-69-4	Trichlorofluoromethane	U	5	1.0	5	5	0.2
75-35-4	1,1-Dichloroethene	J	0.3	1.0	5	5	0.3
75-15-0	Carbon Disulfide	U	5	1.0	5	5	0.2
74-88-4	Iodomethane	U	10	1.0	10	10	0.2
107-02-8	Acrolein	U	50	1.0	50	50	3
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.3
67-64-1	Acetone	U	10	1.0	10	10	3
78-83-1	Isobutyl Alcohol	U	100	1.0	100	100	78
156-60-5	trans-1,2-Dichloroethene	E	850	1.0	5	5	0.7
107-05-1	Allyl Chloride	U	10	1.0	10	10	1
75-05-8	Acetonitrile	U	50	1.0	50	50	6
126-99-8	Chloroprene	U	10	1.0	10	10	2
126-98-7	Methacrylonitrile	U	50	1.0	50	50	11
107-12-0	Propionitrile	U	50	1.0	50	50	16
75-34-3	1,1-Dichloroethane	U	5	1.0	5	5	0.1
107-13-1	Acrylonitrile	U	10	1.0	10	10	0.8
108-05-4	Vinyl Acetate	U	5	1.0	5	5	0.3
156-59-2	cis-1,2-Dichloroethene	E	300	1.0	5	5	0.5
540-59-0	1,2-Dichloroethylene (total)	E	1200	1.0	5	5	1
80-62-6	Methyl Methacrylate	U	10	1.0	10	10	1
67-66-3	Chloroform	U	5	1.0	5	5	0.2
56-23-5	Carbon Tetrachloride	U	5	1.0	5	5	0.3
71-55-6	1,1,1-Trichloroethane	U	5	1.0	5	5	0.7
78-93-3	2-Butanone	U	10	1.0	10	10	2
71-43-2	Benzene	J	0.7	1.0	5	5	0.1
97-63-2	Ethyl Methacrylate	U	10	1.0	10	10	0.9
107-06-2	1,2-Dichloroethane	U	5	1.0	5	5	0.3
79-01-6	Trichloroethene	U	5	1.0	5	5	0.6
74-95-3	Dibromomethane	U	5	1.0	5	5	0.4
78-87-5	1,2-Dichloropropane	U	5	1.0	5	5	0.2
75-27-4	Bromodichloromethane	U	5	1.0	5	5	0.2
10061-01-5	cis-1,3-dichloropropene	U	5	1.0	5	5	0.4
123-91-1	1,4-Dioxane	U	100	1.0	100	100	43
110-75-8	2-Chloroethylvinylether	U	5	1.0	5	5	0.5
108-88-3	Toluene	U	5	1.0	5	5	0.2
108-10-1	4-methyl-2-pentanone	U	10	1.0	10	10	2
127-18-4	Tetrachloroethene	U	5	1.0	5	5	0.4
10061-02-6	trans-1,3-Dichloropropene	U	5	1.0	5	5	0.4

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 02/02/03
Received Date: 02/04/03
Extraction Date: 02/07/03
Analysis Date: 02/07/03
Report Date: 03/05/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0246-13
Client ID: S9MW-22-0103
SDG: CTO233-4
Extracted by: JSS
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG1691
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
79-00-5	1,1,2-Trichloroethane	U	5	1.0	5	5	0.3
124-48-1	Dibromochloromethane	U	5	1.0	5	5	0.3
106-93-4	1,2-Dibromoethane	U	5	1.0	5	5	0.2
591-78-6	2-Hexanone	U	10	1.0	10	10	2
108-90-7	Chlorobenzene	U	5	1.0	5	5	0.2
100-41-4	Ethylbenzene	U	5	1.0	5	5	0.1
630-20-6	1,1,1,2-Tetrachloroethane	U	5	1.0	5	5	0.2
1330-20-7	Xylenes (total)	U	5	1.0	5	5	0.2
	m+p-Xylenes	U	5	1.0	5	5	0.2
95-47-6	o-Xylene	U	5	1.0	5	5	0.2
100-42-5	Styrene	U	5	1.0	5	5	0.3
75-25-2	Bromoform	U	5	1.0	5	5	0.4
110-57-6	trans-1,4-Dichloro-2-Butene	U	10	1.0	10	10	0.5
79-34-5	1,1,2,2-Tetrachloroethane	U	5	1.0	5	5	0.4
96-18-4	1,2,3-Trichloropropane	U	5	1.0	5	5	0.9
76-01-1	Pentachloroethane	U	10	1.0	10	10	2
96-12-8	1,2-Dibromo-3-Chloropropane	U	5	1.0	5	5	0.6
1868-53-7	Dibromofluoromethane		91%				
17060-07-0	1,2-Dichloroethane-D4		105%				
2037-26-5	Toluene-D8		90%				
460-00-4	P-Bromofluorobenzene		95%				

Katahdin Analytical Services

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Tetra Tech NUS, Inc
Lab Smp Id: WT0246-13
Operator : JSS
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 07-FEB-2003 21:17

Client SDG: CTO233-4
Client Smp ID: S9MW-22-0103
Sample Date: 02-FEB-2003
Sample Point:
Date Received:04-FEB-2003 12:00
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 02/02/03
Received Date: 02/04/03
Extraction Date: 02/10/03
Analysis Date: 02/10/03
Report Date: 03/05/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0246-13
Client ID: S9MW-22-0103-DL
SDG: CTO233-4
Extracted by: JEY
Extraction Method: SW846 5030
Analyst: JEY
Analysis Method: SW846 8260B
Lab Prep Batch: WG1695
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	50	10	5	50	2
74-87-3	Chloromethane	U	50	10	5	50	3
75-01-4	Vinyl chloride	U	20	10	2	20	1
74-83-9	Bromomethane	U	50	10	5	50	9
75-00-3	Chloroethane	U	50	10	5	50	3
75-69-4	Trichlorofluoromethane	U	50	10	5	50	2
75-35-4	1,1-Dichloroethene	U	50	10	5	50	3
75-15-0	Carbon Disulfide	U	50	10	5	50	2
74-88-4	Iodomethane	U	100	10	10	100	2
107-02-8	Acrolein	U	500	10	50	500	29
75-09-2	Methylene Chloride	JB	11	10	5	50	3
67-64-1	Acetone	U	100	10	10	100	28
78-83-1	Isobutyl Alcohol	U	1000	10	100	1000	780
156-60-5	trans-1,2-Dichloroethene		890	10	5	50	7
107-05-1	Allyl Chloride	U	100	10	10	100	14
75-05-8	Acetonitrile	U	500	10	50	500	60
126-99-8	Chloroprene	U	100	10	10	100	16
126-98-7	Methacrylonitrile	U	500	10	50	500	110
107-12-0	Propionitrile	U	500	10	50	500	160
75-34-3	1,1-Dichloroethane	U	50	10	5	50	1
107-13-1	Acrylonitrile	U	100	10	10	100	8
108-05-4	Vinyl Acetate	U	50	10	5	50	3
156-59-2	cis-1,2-Dichloroethene		340	10	5	50	5
540-59-0	1,2-Dichloroethylene (total)		1200	10	5	50	12
80-62-6	Methyl Methacrylate	U	100	10	10	100	14
67-66-3	Chloroform	U	50	10	5	50	2
56-23-5	Carbon Tetrachloride	U	50	10	5	50	3
71-55-6	1,1,1-Trichloroethane	U	50	10	5	50	7
78-93-3	2-Butanone	U	100	10	10	100	19
71-43-2	Benzene	U	50	10	5	50	1
97-63-2	Ethyl Methacrylate	U	100	10	10	100	9
107-06-2	1,2-Dichloroethane	U	50	10	5	50	3
79-01-6	Trichloroethene	U	50	10	5	50	6
74-95-3	Dibromomethane	U	50	10	5	50	4
78-87-5	1,2-Dichloropropane	U	50	10	5	50	2
75-27-4	Bromodichloromethane	U	50	10	5	50	2
10061-01-5	cis-1,3-dichloropropene	U	50	10	5	50	4
123-91-1	1,4-Dioxane	U	1000	10	100	1000	430
110-75-8	2-Chloroethylvinylether	U	50	10	5	50	5
108-88-3	Toluene	U	50	10	5	50	2
108-10-1	4-methyl-2-pentanone	U	100	10	10	100	18
127-18-4	Tetrachloroethene	U	50	10	5	50	4
10061-02-6	trans-1,3-Dichloropropene	U	50	10	5	50	4

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 02/02/03
Received Date: 02/04/03
Extraction Date: 02/10/03
Analysis Date: 02/10/03
Report Date: 03/05/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0246-13
Client ID: S9MW-22-0103-DL
SDG: CTO233-4
Extracted by: JEY
Extraction Method: SW846 5030
Analyst: JEY
Analysis Method: SW846 8260B
Lab Prep Batch: WG1695
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
79-00-5	1,1,2-Trichloroethane	U	50	10	5	50	3
124-48-1	Dibromochloromethane	U	50	10	5	50	3
106-93-4	1,2-Dibromoethane	U	50	10	5	50	2
591-78-6	2-Hexanone	U	100	10	10	100	16
108-90-7	Chlorobenzene	U	50	10	5	50	2
100-41-4	Ethylbenzene	U	50	10	5	50	1
630-20-6	1,1,1,2-Tetrachloroethane	U	50	10	5	50	2
1330-20-7	Xylenes (total)	U	50	10	5	50	2
	m+p-Xylenes	U	50	10	5	50	2
95-47-6	o-Xylene	U	50	10	5	50	2
100-42-5	Styrene	U	50	10	5	50	3
75-25-2	Bromoform	U	50	10	5	50	4
110-57-6	trans-1,4-Dichloro-2-Butene	U	100	10	10	100	5
79-34-5	1,1,2,2-Tetrachloroethane	U	50	10	5	50	4
96-18-4	1,2,3-Trichloropropane	U	50	10	5	50	9
76-01-1	Pentachloroethane	U	100	10	10	100	16
96-12-8	1,2-Dibromo-3-Chloropropane	U	50	10	5	50	6
1868-53-7	Dibromofluoromethane		87%				
17060-07-0	1,2-Dichloroethane-D4		104%				
2037-26-5	Toluene-D8		93%				
460-00-4	P-Bromofluorobenzene		100%				

Katahdin Analytical Services

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Tetra Tech NUS, Inc
Lab Smp Id: WT0246-13
Operator : JEY
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 10-FEB-2003 18:26

Client SDG: CTO233-4
Client Smp ID: S9MW-22-0103-DL
Sample Date: 02-FEB-2003
Sample Point:
Date Received:04-FEB-2003 12:00
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 02/02/03
Received Date: 02/04/03
Extraction Date: 02/07/03
Analysis Date: 02/07/03
Report Date: 03/05/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0246-6
Client ID: S9MW-24-0103
SDG: CTO233-4
Extracted by: JSS
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG1691
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	5	1.0	5	5	0.2
74-87-3	Chloromethane	U	5	1.0	5	5	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	5	1.0	5	5	0.9
75-00-3	Chloroethane	U	5	1.0	5	5	0.3
75-69-4	Trichlorofluoromethane	U	5	1.0	5	5	0.2
75-35-4	1,1-Dichloroethene	U	5	1.0	5	5	0.3
75-15-0	Carbon Disulfide	J	0.6	1.0	5	5	0.2
74-88-4	Iodomethane	U	10	1.0	10	10	0.2
107-02-8	Acrolein	U	50	1.0	50	50	3
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.3
67-64-1	Acetone	J	4	1.0	10	10	3
78-83-1	Isobutyl Alcohol	U	100	1.0	100	100	78
156-60-5	trans-1,2-Dichloroethene	E	500	1.0	5	5	0.7
107-05-1	Allyl Chloride	U	10	1.0	10	10	1
75-05-8	Acetonitrile	U	50	1.0	50	50	6
126-99-8	Chloroprene	U	10	1.0	10	10	2
126-98-7	Methacrylonitrile	U	50	1.0	50	50	11
107-12-0	Propionitrile	U	50	1.0	50	50	16
75-34-3	1,1-Dichloroethane	U	5	1.0	5	5	0.1
107-13-1	Acrylonitrile	U	10	1.0	10	10	0.8
108-05-4	Vinyl Acetate	U	5	1.0	5	5	0.3
156-59-2	cis-1,2-Dichloroethene		150	1.0	5	5	0.5
540-59-0	1,2-Dichloroethylene (total)	E	650	1.0	5	5	1
80-62-6	Methyl Methacrylate	U	10	1.0	10	10	1
67-66-3	Chloroform	U	5	1.0	5	5	0.2
56-23-5	Carbon Tetrachloride	U	5	1.0	5	5	0.3
71-55-6	1,1,1-Trichloroethane	U	5	1.0	5	5	0.7
78-93-3	2-Butanone	U	10	1.0	10	10	2
71-43-2	Benzene	J	0.5	1.0	5	5	0.1
97-63-2	Ethyl Methacrylate	U	10	1.0	10	10	0.9
107-06-2	1,2-Dichloroethane	U	5	1.0	5	5	0.3
79-01-6	Trichloroethene	U	5	1.0	5	5	0.6
74-95-3	Dibromomethane	U	5	1.0	5	5	0.4
78-87-5	1,2-Dichloropropane	U	5	1.0	5	5	0.2
75-27-4	Bromodichloromethane	U	5	1.0	5	5	0.2
10061-01-5	cis-1,3-dichloropropene	U	5	1.0	5	5	0.4
123-91-1	1,4-Dioxane	U	100	1.0	100	100	43
110-75-8	2-Chloroethylvinylether	U	5	1.0	5	5	0.5
108-88-3	Toluene	J	0.3	1.0	5	5	0.2
108-10-1	4-methyl-2-pentanone	U	10	1.0	10	10	2
127-18-4	Tetrachloroethene	U	5	1.0	5	5	0.4
10061-02-6	trans-1,3-Dichloropropene	U	5	1.0	5	5	0.4

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 02/02/03
Received Date: 02/04/03
Extraction Date: 02/07/03
Analysis Date: 02/07/03
Report Date: 03/05/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0246-6
Client ID: S9MW-24-0103
SDG: CTO233-4
Extracted by: JSS
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG1691
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
79-00-5	1,1,2-Trichloroethane	U	5	1.0	5	5	0.3
124-48-1	Dibromochloromethane	U	5	1.0	5	5	0.3
106-93-4	1,2-Dibromoethane	U	5	1.0	5	5	0.2
591-78-6	2-Hexanone	U	10	1.0	10	10	2
108-90-7	Chlorobenzene	U	5	1.0	5	5	0.2
100-41-4	Ethylbenzene	U	5	1.0	5	5	0.1
630-20-6	1,1,1,2-Tetrachloroethane	U	5	1.0	5	5	0.2
1330-20-7	Xylenes (total)	J	0.2	1.0	5	5	0.2
	m+p-Xylenes	J	0.2	1.0	5	5	0.2
95-47-6	o-Xylene	U	5	1.0	5	5	0.2
100-42-5	Styrene	U	5	1.0	5	5	0.3
75-25-2	Bromoform	U	5	1.0	5	5	0.4
110-57-6	trans-1,4-Dichloro-2-Butene	U	10	1.0	10	10	0.5
79-34-5	1,1,2,2-Tetrachloroethane	U	5	1.0	5	5	0.4
96-18-4	1,2,3-Trichloropropane	U	5	1.0	5	5	0.9
76-01-1	Pentachloroethane	U	10	1.0	10	10	2
96-12-8	1,2-Dibromo-3-Chloropropane	U	5	1.0	5	5	0.6
1868-53-7	Dibromofluoromethane		87%				
17060-07-0	1,2-Dichloroethane-D4		104%				
2037-26-5	Toluene-D8		91%				
460-00-4	P-Bromofluorobenzene		95%				

Katahdin Analytical Services

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Tetra Tech NUS, Inc
Lab Smp Id: WT0246-6
Operator : JSS
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 07-FEB-2003 19:05

Client SDG: CTO233-4
Client Smp ID: S9MW-24-0103
Sample Date: 02-FEB-2003
Sample Point:
Date Received:04-FEB-2003 12:00
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 02/02/03
Received Date: 02/04/03
Extraction Date: 02/10/03
Analysis Date: 02/10/03
Report Date: 03/05/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0246-6
Client ID: S9MW-24-0103-DL
SDG: CTO233-4
Extracted by: JEY
Extraction Method: SW846 5030
Analyst: JEY
Analysis Method: SW846 8260B
Lab Prep Batch: WG1695
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	25	5.0	5	25	1
74-87-3	Chloromethane	U	25	5.0	5	25	1
75-01-4	Vinyl chloride	U	10	5.0	2	10	0.5
74-83-9	Bromomethane	U	25	5.0	5	25	5
75-00-3	Chloroethane	U	25	5.0	5	25	1
75-69-4	Trichlorofluoromethane	U	25	5.0	5	25	1
75-35-4	1,1-Dichloroethene	U	25	5.0	5	25	1
75-15-0	Carbon Disulfide	U	25	5.0	5	25	0.8
74-88-4	Iodomethane	U	50	5.0	10	50	1
107-02-8	Acrolein	U	250	5.0	50	250	15
75-09-2	Methylene Chloride	JB	6	5.0	5	25	2
67-64-1	Acetone	U	50	5.0	10	50	14
78-83-1	Isobutyl Alcohol	U	500	5.0	100	500	390
156-60-5	trans-1,2-Dichloroethene		330	5.0	5	25	3
107-05-1	Allyl Chloride	U	50	5.0	10	50	7
75-05-8	Acetonitrile	U	250	5.0	50	250	30
126-99-8	Chloroprene	U	50	5.0	10	50	8
126-98-7	Methacrylonitrile	U	250	5.0	50	250	53
107-12-0	Propionitrile	U	250	5.0	50	250	79
75-34-3	1,1-Dichloroethane	U	25	5.0	5	25	0.6
107-13-1	Acrylonitrile	U	50	5.0	10	50	4
108-05-4	Vinyl Acetate	U	25	5.0	5	25	2
156-59-2	cis-1,2-Dichloroethene		110	5.0	5	25	2
540-59-0	1,2-Dichloroethylene (total)		440	5.0	5	25	6
80-62-6	Methyl Methacrylate	U	50	5.0	10	50	7
67-66-3	Chloroform	U	25	5.0	5	25	0.9
56-23-5	Carbon Tetrachloride	U	25	5.0	5	25	2
71-55-6	1,1,1-Trichloroethane	U	25	5.0	5	25	3
78-93-3	2-Butanone	U	50	5.0	10	50	9
71-43-2	Benzene	U	25	5.0	5	25	0.6
97-63-2	Ethyl Methacrylate	U	50	5.0	10	50	4
107-06-2	1,2-Dichloroethane	U	25	5.0	5	25	1
79-01-6	Trichloroethene	U	25	5.0	5	25	3
74-95-3	Dibromomethane	U	25	5.0	5	25	2
78-87-5	1,2-Dichloropropane	U	25	5.0	5	25	1
75-27-4	Bromodichloromethane	U	25	5.0	5	25	1
10061-01-5	cis-1,3-dichloropropene	U	25	5.0	5	25	2
123-91-1	1,4-Dioxane	U	500	5.0	100	500	220
110-75-8	2-Chloroethylvinylether	U	25	5.0	5	25	3
108-88-3	Toluene	U	25	5.0	5	25	0.9
108-10-1	4-methyl-2-pentanone	U	50	5.0	10	50	9
127-18-4	Tetrachloroethene	U	25	5.0	5	25	2
10061-02-6	trans-1,3-Dichloropropene	U	25	5.0	5	25	2

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 02/02/03
Received Date: 02/04/03
Extraction Date: 02/10/03
Analysis Date: 02/10/03
Report Date: 03/05/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0246-6
Client ID: S9MW-24-0103-DL
SDG: CTO233-4
Extracted by: JEY
Extraction Method: SW846 5030
Analyst: JEY
Analysis Method: SW846 8260B
Lab Prep Batch: WG1695
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
79-00-5	1,1,2-Trichloroethane	U	25	5.0	5	25	2
124-48-1	Dibromochloromethane	U	25	5.0	5	25	1
106-93-4	1,2-Dibromoethane	U	25	5.0	5	25	1
591-78-6	2-Hexanone	U	50	5.0	10	50	8
108-90-7	Chlorobenzene	U	25	5.0	5	25	1
100-41-4	Ethylbenzene	U	25	5.0	5	25	0.6
630-20-6	1,1,1,2-Tetrachloroethane	U	25	5.0	5	25	1.0
1330-20-7	Xylenes (total)	U	25	5.0	5	25	1
	m+p-Xylenes	U	25	5.0	5	25	0.9
95-47-6	o-Xylene	U	25	5.0	5	25	0.8
100-42-5	Styrene	U	25	5.0	5	25	1
75-25-2	Bromoform	U	25	5.0	5	25	2
110-57-6	trans-1,4-Dichloro-2-Butene	U	50	5.0	10	50	2
79-34-5	1,1,2,2-Tetrachloroethane	U	25	5.0	5	25	2
96-18-4	1,2,3-Trichloropropane	U	25	5.0	5	25	5
76-01-1	Pentachloroethane	U	50	5.0	10	50	8
96-12-8	1,2-Dibromo-3-Chloropropane	U	25	5.0	5	25	3
1868-53-7	Dibromofluoromethane		89%				
17060-07-0	1,2-Dichloroethane-D4		107%				
2037-26-5	Toluene-D8		91%				
460-00-4	P-Bromofluorobenzene		96%				

Katahdin Analytical Services

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Tetra Tech NUS, Inc
Lab Smp Id: WT0246-6
Operator : JEY
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 10-FEB-2003 17:19

Client SDG: CTO233-4
Client Smp ID: S9MW-24-0103-DL
Sample Date: 02-FEB-2003
Sample Point:
Date Received:04-FEB-2003 12:00
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 02/02/03
Received Date: 02/04/03
Extraction Date: 02/07/03
Analysis Date: 02/07/03
Report Date: 03/05/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0246-7
Client ID: S9MW-25-0103
SDG: CTO233-4
Extracted by: JSS
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG1691
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	5	1.0	5	5	0.2
74-87-3	Chloromethane	U	5	1.0	5	5	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	5	1.0	5	5	0.9
75-00-3	Chloroethane	U	5	1.0	5	5	0.3
75-69-4	Trichlorofluoromethane	U	5	1.0	5	5	0.2
75-35-4	1,1-Dichloroethene	U	5	1.0	5	5	0.3
75-15-0	Carbon Disulfide	J	0.3	1.0	5	5	0.2
74-88-4	Iodomethane	U	10	1.0	10	10	0.2
107-02-8	Acrolein	U	50	1.0	50	50	3
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.3
67-64-1	Acetone	U	10	1.0	10	10	3
78-83-1	Isobutyl Alcohol	U	100	1.0	100	100	78
156-60-5	trans-1,2-Dichloroethene	J	0.8	1.0	5	5	0.7
107-05-1	Allyl Chloride	U	10	1.0	10	10	1
75-05-8	Acetonitrile	U	50	1.0	50	50	6
126-99-8	Chloroprene	U	10	1.0	10	10	2
126-98-7	Methacrylonitrile	U	50	1.0	50	50	11
107-12-0	Propionitrile	U	50	1.0	50	50	16
75-34-3	1,1-Dichloroethane	U	5	1.0	5	5	0.1
107-13-1	Acrylonitrile	U	10	1.0	10	10	0.8
108-05-4	Vinyl Acetate	U	5	1.0	5	5	0.3
156-59-2	cis-1,2-Dichloroethene	U	5	1.0	5	5	0.5
540-59-0	1,2-Dichloroethylene (total)	U	5	1.0	5	5	1
80-62-6	Methyl Methacrylate	U	10	1.0	10	10	1
67-66-3	Chloroform	U	5	1.0	5	5	0.2
56-23-5	Carbon Tetrachloride	U	5	1.0	5	5	0.3
71-55-6	1,1,1-Trichloroethane	U	5	1.0	5	5	0.7
78-93-3	2-Butanone	U	10	1.0	10	10	2
71-43-2	Benzene	U	5	1.0	5	5	0.1
97-63-2	Ethyl Methacrylate	U	10	1.0	10	10	0.9
107-06-2	1,2-Dichloroethane	U	5	1.0	5	5	0.3
79-01-6	Trichloroethene	U	5	1.0	5	5	0.6
74-95-3	Dibromomethane	U	5	1.0	5	5	0.4
78-87-5	1,2-Dichloropropane	U	5	1.0	5	5	0.2
75-27-4	Bromodichloromethane	U	5	1.0	5	5	0.2
10061-01-5	cis-1,3-dichloropropene	U	5	1.0	5	5	0.4
123-91-1	1,4-Dioxane	U	100	1.0	100	100	43
110-75-8	2-Chloroethylvinylether	U	5	1.0	5	5	0.5
108-88-3	Toluene	U	5	1.0	5	5	0.2
108-10-1	4-methyl-2-pentanone	U	10	1.0	10	10	2
127-18-4	Tetrachloroethene	U	5	1.0	5	5	0.4
10061-02-6	trans-1,3-Dichloropropene	U	5	1.0	5	5	0.4

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 02/02/03
Received Date: 02/04/03
Extraction Date: 02/07/03
Analysis Date: 02/07/03
Report Date: 03/05/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0246-7
Client ID: S9MW-25-0103
SDG: CTO233-4
Extracted by: JSS
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG1691
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
79-00-5	1,1,2-Trichloroethane	U	5	1.0	5	5	0.3
124-48-1	Dibromochloromethane	U	5	1.0	5	5	0.3
106-93-4	1,2-Dibromoethane	U	5	1.0	5	5	0.2
591-78-6	2-Hexanone	U	10	1.0	10	10	2
108-90-7	Chlorobenzene	U	5	1.0	5	5	0.2
100-41-4	Ethylbenzene	U	5	1.0	5	5	0.1
630-20-6	1,1,1,2-Tetrachloroethane	U	5	1.0	5	5	0.2
1330-20-7	Xylenes (total)	U	5	1.0	5	5	0.2
	m+p-Xylenes	U	5	1.0	5	5	0.2
95-47-6	o-Xylene	U	5	1.0	5	5	0.2
100-42-5	Styrene	U	5	1.0	5	5	0.3
75-25-2	Bromoform	U	5	1.0	5	5	0.4
110-57-6	trans-1,4-Dichloro-2-Butene	U	10	1.0	10	10	0.5
79-34-5	1,1,2,2-Tetrachloroethane	U	5	1.0	5	5	0.4
96-18-4	1,2,3-Trichloropropane	U	5	1.0	5	5	0.9
76-01-1	Pentachloroethane	U	10	1.0	10	10	2
96-12-8	1,2-Dibromo-3-Chloropropane	U	5	1.0	5	5	0.6
1868-53-7	Dibromofluoromethane		86%				
17060-07-0	1,2-Dichloroethane-D4		95%				
2037-26-5	Toluene-D8		92%				
460-00-4	P-Bromofluorobenzene		90%				

Katahdin Analytical Services

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Tetra Tech NUS, Inc
Lab Smp Id: WT0246-7
Operator : JSS
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 07-FEB-2003 19:37

Client SDG: CTO233-4
Client Smp ID: S9MW-25-0103
Sample Date: 02-FEB-2003
Sample Point:
Date Received:04-FEB-2003 12:00
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 02/01/03
Received Date: 02/04/03
Extraction Date: 02/07/03
Analysis Date: 02/07/03
Report Date: 03/05/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0246-1
Client ID: S9MW-5-0103
SDG: CTO233-4
Extracted by: JSS
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG1691
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	5	1.0	5	5	0.2
74-87-3	Chloromethane	U	5	1.0	5	5	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	5	1.0	5	5	0.9
75-00-3	Chloroethane	U	5	1.0	5	5	0.3
75-69-4	Trichlorofluoromethane	U	5	1.0	5	5	0.2
75-35-4	1,1-Dichloroethene	U	5	1.0	5	5	0.3
75-15-0	Carbon Disulfide	J	0.2	1.0	5	5	0.2
74-88-4	Iodomethane	U	10	1.0	10	10	0.2
107-02-8	Acrolein	U	50	1.0	50	50	3
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.3
67-64-1	Acetone	U	10	1.0	10	10	3
78-83-1	Isobutyl Alcohol	U	100	1.0	100	100	78
156-60-5	trans-1,2-Dichloroethene	U	5	1.0	5	5	0.7
107-05-1	Allyl Chloride	U	10	1.0	10	10	1
75-05-8	Acetonitrile	U	50	1.0	50	50	6
126-99-8	Chloroprene	U	10	1.0	10	10	2
126-98-7	Methacrylonitrile	U	50	1.0	50	50	11
107-12-0	Propionitrile	U	50	1.0	50	50	16
75-34-3	1,1-Dichloroethane	U	5	1.0	5	5	0.1
107-13-1	Acrylonitrile	U	10	1.0	10	10	0.8
108-05-4	Vinyl Acetate	U	5	1.0	5	5	0.3
156-59-2	cis-1,2-Dichloroethene	U	5	1.0	5	5	0.5
540-59-0	1,2-Dichloroethylene (total)	U	5	1.0	5	5	1
80-62-6	Methyl Methacrylate	U	10	1.0	10	10	1
67-66-3	Chloroform	U	5	1.0	5	5	0.2
56-23-5	Carbon Tetrachloride	U	5	1.0	5	5	0.3
71-55-6	1,1,1-Trichloroethane	U	5	1.0	5	5	0.7
78-93-3	2-Butanone	U	10	1.0	10	10	2
71-43-2	Benzene	J	3	1.0	5	5	0.1
97-63-2	Ethyl Methacrylate	U	10	1.0	10	10	0.9
107-06-2	1,2-Dichloroethane	U	5	1.0	5	5	0.3
79-01-6	Trichloroethene	U	5	1.0	5	5	0.6
74-95-3	Dibromomethane	U	5	1.0	5	5	0.4
78-87-5	1,2-Dichloropropane	U	5	1.0	5	5	0.2
75-27-4	Bromodichloromethane	U	5	1.0	5	5	0.2
10061-01-5	cis-1,3-dichloropropene	U	5	1.0	5	5	0.4
123-91-1	1,4-Dioxane	U	100	1.0	100	100	43
110-75-8	2-Chloroethylvinylether	U	5	1.0	5	5	0.5
108-88-3	Toluene	U	5	1.0	5	5	0.2
108-10-1	4-methyl-2-pentanone	U	10	1.0	10	10	2
127-18-4	Tetrachloroethene	U	5	1.0	5	5	0.4
10061-02-6	trans-1,3-Dichloropropene	U	5	1.0	5	5	0.4

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 02/01/03
Received Date: 02/04/03
Extraction Date: 02/07/03
Analysis Date: 02/07/03
Report Date: 03/05/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0246-1
Client ID: S9MW-5-0103
SDG: CTO233-4
Extracted by: JSS
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG1691
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
79-00-5	1,1,2-Trichloroethane	U	5	1.0	5	5	0.3
124-48-1	Dibromochloromethane	U	5	1.0	5	5	0.3
106-93-4	1,2-Dibromoethane	U	5	1.0	5	5	0.2
591-78-6	2-Hexanone	U	10	1.0	10	10	2
108-90-7	Chlorobenzene	U	5	1.0	5	5	0.2
100-41-4	Ethylbenzene	J	2	1.0	5	5	0.1
630-20-6	1,1,1,2-Tetrachloroethane	U	5	1.0	5	5	0.2
1330-20-7	Xylenes (total)	U	5	1.0	5	5	0.2
	m+p-Xylenes	U	5	1.0	5	5	0.2
95-47-6	o-Xylene	U	5	1.0	5	5	0.2
100-42-5	Styrene	U	5	1.0	5	5	0.3
75-25-2	Bromoform	U	5	1.0	5	5	0.4
110-57-6	trans-1,4-Dichloro-2-Butene	U	10	1.0	10	10	0.5
79-34-5	1,1,2,2-Tetrachloroethane	U	5	1.0	5	5	0.4
96-18-4	1,2,3-Trichloropropane	U	5	1.0	5	5	0.9
76-01-1	Pentachloroethane	U	10	1.0	10	10	2
96-12-8	1,2-Dibromo-3-Chloropropane	U	5	1.0	5	5	0.6
1868-53-7	Dibromofluoromethane		88%				
17060-07-0	1,2-Dichloroethane-D4		103%				
2037-26-5	Toluene-D8		92%				
460-00-4	P-Bromofluorobenzene		96%				

Katahdin Analytical Services

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Tetra Tech NUS, Inc
Lab Smp Id: WT0246-1
Operator : JSS
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 07-FEB-2003 16:18

Client SDG: CTO233-4
Client Smp ID: S9MW-5-0103
Sample Date: 01-FEB-2003
Sample Point:
Date Received:04-FEB-2003 12:00
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 01/21/03
Received Date: 02/01/03
Extraction Date: 02/07/03
Analysis Date: 02/07/03
Report Date: 03/05/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0233-8
Client ID: TB-013103
SDG: CTO233-4
Extracted by: JSS
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG1691
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	5	1.0	5	5	0.2
74-87-3	Chloromethane	U	5	1.0	5	5	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	5	1.0	5	5	0.9
75-00-3	Chloroethane	U	5	1.0	5	5	0.3
75-69-4	Trichlorofluoromethane	U	5	1.0	5	5	0.2
75-35-4	1,1-Dichloroethene	U	5	1.0	5	5	0.3
75-15-0	Carbon Disulfide	U	5	1.0	5	5	0.2
74-88-4	Iodomethane	U	10	1.0	10	10	0.2
107-02-8	Acrolein	U	50	1.0	50	50	3
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.3
67-64-1	Acetone	U	10	1.0	10	10	3
78-83-1	Isobutyl Alcohol	U	100	1.0	100	100	78
156-60-5	trans-1,2-Dichloroethene	U	5	1.0	5	5	0.7
107-05-1	Allyl Chloride	U	10	1.0	10	10	1
75-05-8	Acetonitrile	U	50	1.0	50	50	6
126-99-8	Chloroprene	U	10	1.0	10	10	2
126-98-7	Methacrylonitrile	U	50	1.0	50	50	11
107-12-0	Propionitrile	U	50	1.0	50	50	16
75-34-3	1,1-Dichloroethane	U	5	1.0	5	5	0.1
107-13-1	Acrylonitrile	U	10	1.0	10	10	0.8
108-05-4	Vinyl Acetate	U	5	1.0	5	5	0.3
156-59-2	cis-1,2-Dichloroethene	U	5	1.0	5	5	0.5
540-59-0	1,2-Dichloroethylene (total)	U	5	1.0	5	5	1
80-62-6	Methyl Methacrylate	U	10	1.0	10	10	1
67-66-3	Chloroform	U	5	1.0	5	5	0.2
56-23-5	Carbon Tetrachloride	U	5	1.0	5	5	0.3
71-55-6	1,1,1-Trichloroethane	U	5	1.0	5	5	0.7
78-93-3	2-Butanone	U	10	1.0	10	10	2
71-43-2	Benzene	U	5	1.0	5	5	0.1
97-63-2	Ethyl Methacrylate	U	10	1.0	10	10	0.9
107-06-2	1,2-Dichloroethane	U	5	1.0	5	5	0.3
79-01-6	Trichloroethene	U	5	1.0	5	5	0.6
74-95-3	Dibromomethane	U	5	1.0	5	5	0.4
78-87-5	1,2-Dichloropropane	U	5	1.0	5	5	0.2
75-27-4	Bromodichloromethane	U	5	1.0	5	5	0.2
10061-01-5	cis-1,3-dichloropropene	U	5	1.0	5	5	0.4
123-91-1	1,4-Dioxane	U	100	1.0	100	100	43
110-75-8	2-Chloroethylvinylether	U	5	1.0	5	5	0.5
108-88-3	Toluene	U	5	1.0	5	5	0.2
108-10-1	4-methyl-2-pentanone	U	10	1.0	10	10	2
127-18-4	Tetrachloroethene	U	5	1.0	5	5	0.4
10061-02-6	trans-1,3-Dichloropropene	U	5	1.0	5	5	0.4

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 01/21/03
Received Date: 02/01/03
Extraction Date: 02/07/03
Analysis Date: 02/07/03
Report Date: 03/05/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0233-8
Client ID: TB-013103
SDG: CTO233-4
Extracted by: JSS
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG1691
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
79-00-5	1,1,2-Trichloroethane	U	5	1.0	5	5	0.3
124-48-1	Dibromochloromethane	U	5	1.0	5	5	0.3
106-93-4	1,2-Dibromoethane	U	5	1.0	5	5	0.2
591-78-6	2-Hexanone	U	10	1.0	10	10	2
108-90-7	Chlorobenzene	U	5	1.0	5	5	0.2
100-41-4	Ethylbenzene	U	5	1.0	5	5	0.1
630-20-6	1,1,1,2-Tetrachloroethane	U	5	1.0	5	5	0.2
1330-20-7	Xylenes (total)	U	5	1.0	5	5	0.2
	m+p-Xylenes	U	5	1.0	5	5	0.2
95-47-6	o-Xylene	U	5	1.0	5	5	0.2
100-42-5	Styrene	U	5	1.0	5	5	0.3
75-25-2	Bromoform	U	5	1.0	5	5	0.4
110-57-6	trans-1,4-Dichloro-2-Butene	U	10	1.0	10	10	0.5
79-34-5	1,1,2,2-Tetrachloroethane	U	5	1.0	5	5	0.4
96-18-4	1,2,3-Trichloropropane	U	5	1.0	5	5	0.9
76-01-1	Pentachloroethane	U	10	1.0	10	10	2
96-12-8	1,2-Dibromo-3-Chloropropane	U	5	1.0	5	5	0.6
1868-53-7	Dibromofluoromethane		88%				
17060-07-0	1,2-Dichloroethane-D4		91%				
2037-26-5	Toluene-D8		91%				
460-00-4	P-Bromofluorobenzene		87%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 01/21/03
Received Date: 02/04/03
Extraction Date: 02/07/03
Analysis Date: 02/07/03
Report Date: 03/05/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0246-14
Client ID: TB-020303
SDG: CTO233-4
Extracted by: JSS
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG1691
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	5	1.0	5	5	0.2
74-87-3	Chloromethane	U	5	1.0	5	5	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	5	1.0	5	5	0.9
75-00-3	Chloroethane	U	5	1.0	5	5	0.3
75-69-4	Trichlorofluoromethane	U	5	1.0	5	5	0.2
75-35-4	1,1-Dichloroethene	U	5	1.0	5	5	0.3
75-15-0	Carbon Disulfide	U	5	1.0	5	5	0.2
74-88-4	Iodomethane	U	10	1.0	10	10	0.2
107-02-8	Acrolein	U	50	1.0	50	50	3
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.3
67-64-1	Acetone	U	10	1.0	10	10	3
78-83-1	Isobutyl Alcohol	U	100	1.0	100	100	78
156-60-5	trans-1,2-Dichloroethene	U	5	1.0	5	5	0.7
107-05-1	Allyl Chloride	U	10	1.0	10	10	1
75-05-8	Acetonitrile	U	50	1.0	50	50	6
126-99-8	Chloroprene	U	10	1.0	10	10	2
126-98-7	Methacrylonitrile	U	50	1.0	50	50	11
107-12-0	Propionitrile	U	50	1.0	50	50	16
75-34-3	1,1-Dichloroethane	U	5	1.0	5	5	0.1
107-13-1	Acrylonitrile	U	10	1.0	10	10	0.8
108-05-4	Vinyl Acetate	U	5	1.0	5	5	0.3
156-59-2	cis-1,2-Dichloroethene	U	5	1.0	5	5	0.5
540-59-0	1,2-Dichloroethylene (total)	U	5	1.0	5	5	1
80-62-6	Methyl Methacrylate	U	10	1.0	10	10	1
67-66-3	Chloroform	U	5	1.0	5	5	0.2
56-23-5	Carbon Tetrachloride	U	5	1.0	5	5	0.3
71-55-6	1,1,1-Trichloroethane	U	5	1.0	5	5	0.7
78-93-3	2-Butanone	U	10	1.0	10	10	2
71-43-2	Benzene	U	5	1.0	5	5	0.1
97-63-2	Ethyl Methacrylate	U	10	1.0	10	10	0.9
107-06-2	1,2-Dichloroethane	U	5	1.0	5	5	0.3
79-01-6	Trichloroethene	U	5	1.0	5	5	0.6
74-95-3	Dibromomethane	U	5	1.0	5	5	0.4
78-87-5	1,2-Dichloropropane	U	5	1.0	5	5	0.2
75-27-4	Bromodichloromethane	U	5	1.0	5	5	0.2
10061-01-5	cis-1,3-dichloropropene	U	5	1.0	5	5	0.4
123-91-1	1,4-Dioxane	U	100	1.0	100	100	43
110-75-8	2-Chloroethylvinylether	U	5	1.0	5	5	0.5
108-88-3	Toluene	U	5	1.0	5	5	0.2
108-10-1	4-methyl-2-pentanone	U	10	1.0	10	10	2
127-18-4	Tetrachloroethene	U	5	1.0	5	5	0.4
10061-02-6	trans-1,3-Dichloropropene	U	5	1.0	5	5	0.4

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 01/21/03
Received Date: 02/04/03
Extraction Date: 02/07/03
Analysis Date: 02/07/03
Report Date: 03/05/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0246-14
Client ID: TB-020303
SDG: CTO233-4
Extracted by: JSS
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG1691
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
79-00-5	1,1,2-Trichloroethane	U	5	1.0	5	5	0.3
124-48-1	Dibromochloromethane	U	5	1.0	5	5	0.3
106-93-4	1,2-Dibromoethane	U	5	1.0	5	5	0.2
591-78-6	2-Hexanone	U	10	1.0	10	10	2
108-90-7	Chlorobenzene	U	5	1.0	5	5	0.2
100-41-4	Ethylbenzene	U	5	1.0	5	5	0.1
630-20-6	1,1,1,2-Tetrachloroethane	U	5	1.0	5	5	0.2
1330-20-7	Xylenes (total)	U	5	1.0	5	5	0.2
	m+p-Xylenes	U	5	1.0	5	5	0.2
95-47-6	o-Xylene	U	5	1.0	5	5	0.2
100-42-5	Styrene	U	5	1.0	5	5	0.3
75-25-2	Bromoform	U	5	1.0	5	5	0.4
110-57-6	trans-1,4-Dichloro-2-Butene	U	10	1.0	10	10	0.5
79-34-5	1,1,2,2-Tetrachloroethane	U	5	1.0	5	5	0.4
96-18-4	1,2,3-Trichloropropane	U	5	1.0	5	5	0.9
76-01-1	Pentachloroethane	U	10	1.0	10	10	2
96-12-8	1,2-Dibromo-3-Chloropropane	U	5	1.0	5	5	0.6
1868-53-7	Dibromofluoromethane		90%				
17060-07-0	1,2-Dichloroethane-D4		103%				
2037-26-5	Toluene-D8		94%				
460-00-4	P-Bromofluorobenzene		98%				

Katahdin Analytical Services

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Tetra Tech NUS, Inc
Lab Smp Id: WT0246-14
Operator : JSS
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 07-FEB-2003 14:39

Client SDG: CTO233-4
Client Smp ID: TB-020303
Sample Date: 21-JAN-2003
Sample Point:
Date Received:04-FEB-2003 12:00
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 01/31/03
Received Date: 02/01/03
Extraction Date: 02/05/03
Analysis Date: 02/06/03
Report Date: 02/27/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0233-3
Client ID: FC-MW-05-0103
SDG: CTO233-4
Extracted by: JSS
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG1669
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	m+p-Xylenes		4	1.0	2	2	0.5
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.5
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
95-47-6	o-Xylene		1	1.0	1	1	0.5
74-87-3	Chloromethane	U	2	1.0	2	2	0.5
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.5
74-83-9	Bromomethane	U	2	1.0	2	2	0.5
75-00-3	Chloroethane	U	2	1.0	2	2	0.5
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.5
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.5
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.5
540-59-0	1,2-Dichloroethylene (total)	U	2	1.0	2	2	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.5
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.5
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.5
71-43-2	Benzene	U	1	1.0	1	1	0.5
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.5
79-01-6	Trichloroethene	J	1	1.0	1	1	0.5
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.5
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.5
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.5
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene		1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.5
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.5
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.5
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.5
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.5
100-41-4	Ethylbenzene		1	1.0	1	1	0.5
1330-20-7	Xylenes (total)		5	1.0	3	3	0.5
75-25-2	Bromoform	U	1	1.0	1	1	0.5
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		88%				
17060-07-0	1,2-Dichloroethane-D4		71%				
2037-26-5	Toluene-D8		96%				
460-00-4	P-Bromofluorobenzene		84%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 01/31/03
Received Date: 02/01/03
Extraction Date: 02/07/03
Analysis Date: 02/07/03
Report Date: 02/26/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0233-1
Client ID: FC-MW-06-0103
SDG: CTO233-4
Extracted by: JEY
Extraction Method: SW846 5030
Analyst: JEY
Analysis Method: SW846 8260B
Lab Prep Batch: WG1670
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	m+p-Xylenes		3	1.0	2	2	0.5
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.5
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
95-47-6	o-Xylene		1	1.0	1	1	0.5
74-87-3	Chloromethane	U	2	1.0	2	2	0.5
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.5
74-83-9	Bromomethane	U	2	1.0	2	2	0.5
75-00-3	Chloroethane	U	2	1.0	2	2	0.5
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.5
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.5
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.5
540-59-0	1,2-Dichloroethylene (total)	U	2	1.0	2	2	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.5
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.5
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.5
71-43-2	Benzene	U	1	1.0	1	1	0.5
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.5
79-01-6	Trichloroethene	U	1	1.0	1	1	0.5
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.5
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.5
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.5
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.5
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.5
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.5
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.5
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.5
100-41-4	Ethylbenzene		1	1.0	1	1	0.5
1330-20-7	Xylenes (total)		5	1.0	3	3	0.5
75-25-2	Bromoform	U	1	1.0	1	1	0.5
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		98%				
17060-07-0	1,2-Dichloroethane-D4		88%				
2037-26-5	Toluene-D8		99%				
460-00-4	P-Bromofluorobenzene		92%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 01/31/03
Received Date: 02/01/03
Extraction Date: 02/05/03
Analysis Date: 02/06/03
Report Date: 02/28/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0233-2
Client ID: FC-MW-20R-0103
SDG: CTO233-4
Extracted by: JSS
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG1669
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	m+p-Xylenes		19	1.0	2	2	0.5
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.5
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
95-47-6	o-Xylene	U	1	1.0	1	1	0.5
74-87-3	Chloromethane	U	2	1.0	2	2	0.5
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.5
74-83-9	Bromomethane	U	2	1.0	2	2	0.5
75-00-3	Chloroethane	U	2	1.0	2	2	0.5
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.5
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.5
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.5
540-59-0	1,2-Dichloroethylene (total)	U	2	1.0	2	2	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.5
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.5
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.5
71-43-2	Benzene	U	1	1.0	1	1	0.5
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.5
79-01-6	Trichloroethene	U	1	1.0	1	1	0.5
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.5
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.5
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.5
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene		4	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.5
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.5
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.5
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.5
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.5
100-41-4	Ethylbenzene		88	1.0	1	1	0.5
1330-20-7	Xylenes (total)		19	1.0	3	3	0.5
75-25-2	Bromoform	U	1	1.0	1	1	0.5
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		86%				
17060-07-0	1,2-Dichloroethane-D4		72%				
2037-26-5	Toluene-D8		97%				
460-00-4	P-Bromofluorobenzene		82%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 01/31/03
Received Date: 02/01/03
Extraction Date: 02/10/03
Analysis Date: 02/10/03
Report Date: 02/27/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0233-3
Client ID: FC-MW-05-0103
SDG: CTO233-4
Extracted by: LRS
Extraction Method: EPA 504.1
Analyst: LRS
Analysis Method: EPA 504.1
Lab Prep Batch: WG1604
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.019
877-09-8	Tetrachloro-M-Xylene		88%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 01/31/03
Received Date: 02/01/03
Extraction Date: 02/10/03
Analysis Date: 02/10/03
Report Date: 02/27/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0233-1
Client ID: FC-MW-06-0103
SDG: CTO233-4
Extracted by: LRS
Extraction Method: EPA 504.1
Analyst: LRS
Analysis Method: EPA 504.1
Lab Prep Batch: WG1604
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.019
877-09-8	Tetrachloro-M-Xylene		70%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 01/31/03
Received Date: 02/01/03
Extraction Date: 02/10/03
Analysis Date: 02/10/03
Report Date: 02/27/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0233-2
Client ID: FC-MW-20R-0103
SDG: CTO233-4
Extracted by: LRS
Extraction Method: EPA 504.1
Analyst: LRS
Analysis Method: EPA 504.1
Lab Prep Batch: WG1604
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.019
877-09-8	Tetrachloro-M-Xylene		115%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 01/31/03
Received Date: 02/01/03
Extraction Date: 02/05/03
Analysis Date: 03/04/03
Report Date: 03/06/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0233-7
Client ID: 0103-DUP-01
SDG: CTO233-4
Extracted by: RH
Extraction Method: SW846 3520
Analyst: JJC
Analysis Method: SW846 8270C
Lab Prep Batch: WG1575
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
109-06-8	2-Picoline	U	10	1.0	10	10	1
110-86-1	Pyridine	U	50	1.0	50	50	0.8
62-75-9	N-Nitrosodimethylamine	U	20	1.0	20	20	2
62-53-3	Aniline	U	10	1.0	10	10	0.6
108-95-2	Phenol	U	10	1.0	10	10	0.8
111-44-4	Bis(2-Chloroethyl)ether	U	10	1.0	10	10	0.9
95-57-8	2-Chlorophenol	U	10	1.0	10	10	1.0
541-73-1	1,3-Dichlorobenzene	U	10	1.0	10	10	0.7
106-46-7	1,4-Dichlorobenzene	U	10	1.0	10	10	0.6
95-50-1	1,2-Dichlorobenzene	U	10	1.0	10	10	0.7
100-51-6	Benzyl alcohol	U	20	1.0	20	20	2
108-60-1	Bis(2-Chloroisopropyl)ether	U	10	1.0	10	10	3
95-48-7	2-Methylphenol	U	10	1.0	10	10	0.8
67-72-1	Hexachloroethane	U	10	1.0	10	10	0.6
621-64-7	N-Nitroso-di-n-propylamine	U	10	1.0	10	10	0.7
106-44-5	3&4-Methylphenol	U	10	1.0	10	10	2
98-95-3	Nitrobenzene	U	10	1.0	10	10	1.0
78-59-1	Isophorone	U	10	1.0	10	10	0.8
88-75-5	2-Nitrophenol	U	10	1.0	10	10	0.4
105-67-9	2,4-Dimethyphenol	U	10	1.0	10	10	0.7
111-91-1	Bis(2-Chloroethoxy)methane	U	10	1.0	10	10	1
120-83-2	2,4-Dichlorophenol	U	10	1.0	10	10	1
120-82-1	1,2,4-Trichlorobenzene	U	10	1.0	10	10	0.8
91-20-3	Naphthalene	U	10	1.0	10	10	0.6
106-47-8	4-Chloroaniline	U	10	1.0	10	10	0.5
87-68-3	Hexachlorobutadiene	U	10	1.0	10	10	0.3
59-50-7	4-Chloro-3-Methylphenol	U	10	1.0	10	10	0.8
91-57-6	2-Methylnaphthalene	U	10	1.0	10	10	0.6
77-47-4	Hexachlorocyclopentadiene	U	10	1.0	10	10	2
88-06-2	2,4,6-Trichlorophenol	U	10	1.0	10	10	0.6
95-95-4	2,4,5-Trichlorophenol	U	25	1.0	25	25	1
91-58-7	2-Chloronaphthalene	U	10	1.0	10	10	0.3
88-74-4	2-Nitroaniline	U	25	1.0	25	25	0.7
208-96-8	Acenaphthylene	U	10	1.0	10	10	0.7
131-11-3	Dimethyl Phthalate	U	10	1.0	10	10	0.9
606-20-2	2,6-Dinitrotoluene	U	10	1.0	10	10	0.5
83-32-9	Acenaphthene	U	10	1.0	10	10	0.5
99-09-2	3-Nitroaniline	U	25	1.0	25	25	0.8
51-28-5	2,4-Dinitrophenol	U	25	1.0	25	25	5
132-64-9	Dibenzofuran	U	10	1.0	10	10	0.7
100-02-7	4-Nitrophenol	U	25	1.0	25	25	3
121-14-2	2,4-Dinitrotoluene	U	10	1.0	10	10	0.8
86-73-7	Fluorene	U	10	1.0	10	10	0.7

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 01/31/03
Received Date: 02/01/03
Extraction Date: 02/05/03
Analysis Date: 03/04/03
Report Date: 03/06/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0233-7
Client ID: 0103-DUP-01
SDG: CTO233-4
Extracted by: RH
Extraction Method: SW846 3520
Analyst: JJC
Analysis Method: SW846 8270C
Lab Prep Batch: WG1575
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
84-66-2	Diethylphthalate	U	10	1.0	10	10	1.0
7005-72-3	4-Chlorophenyl-phenylether	U	10	1.0	10	10	0.7
100-01-6	4-Nitroaniline	U	25	1.0	25	25	1
534-52-1	4,6-Dinitro-2-Methylphenol	U	25	1.0	25	25	3
86-30-6	N-Nitrosodiphenylamine/DPA	U	10	1.0	10	10	0.9
122-66-7	1,2-Diphenylhydrazine	U	20	1.0	20	20	3
101-55-3	4-Bromophenyl-phenylether	U	10	1.0	10	10	0.7
118-74-1	Hexachlorobenzene	U	10	1.0	10	10	0.8
87-86-5	Pentachlorophenol	U	25	1.0	25	25	2
85-01-8	Phenanthrene	U	10	1.0	10	10	0.8
120-12-7	Anthracene	U	10	1.0	10	10	0.7
86-74-8	Carbazole	U	10	1.0	10	10	0.9
84-74-2	Di-n-butylphthalate	U	10	1.0	10	10	2
206-44-0	Fluoranthene	U	10	1.0	10	10	0.8
92-87-5	Benzidine	U	50	1.0	50	50	5
129-00-0	Pyrene	U	10	1.0	10	10	1
85-68-7	Butylbenzylphthalate	U	10	1.0	10	10	1
56-55-3	Benzo(a)anthracene	U	10	1.0	10	10	0.9
218-01-9	Chrysene	U	10	1.0	10	10	1
91-94-1	3,3'-Dichlorobenzidine	U	10	1.0	10	10	0.7
117-81-7	bis(2-Ethylhexyl)phthalate	U	10	1.0	10	10	1
117-84-0	Di-n-octylphthalate	U	10	1.0	10	10	1
205-99-2	Benzo(b)fluoranthene	U	10	1.0	10	10	1
207-08-9	Benzo(k)fluoranthene	U	10	1.0	10	10	2
50-32-8	Benzo(a)pyrene	U	10	1.0	10	10	1
193-39-5	Indeno(1,2,3-cd)pyrene	U	10	1.0	10	10	1
53-70-3	Dibenzo(a,h)anthracene	U	10	1.0	10	10	1
191-24-2	Benzo(g,h,i)perylene	U	10	1.0	10	10	1
10595-95-6	N-Nitrosomethylethylamine	U	10	1.0	10	10	1.0
66-27-3	Methyl Methanesulfonate	U	20	1.0	20	20	1
55-18-5	N-Nitrosodiethylamine	U	20	1.0	20	20	0.7
62-50-0	Ethyl Methanesulfonate	U	10	1.0	10	10	1
930-55-2	N-Nitrosopyrrolidine	U	10	1.0	10	10	0.9
59-89-2	N-Nitrosomorpholine	U	10	1.0	10	10	0.9
95-53-4	o-Toluidine	U	10	1.0	10	10	0.7
98-86-2	Acetophenone	U	10	1.0	10	10	0.7
100-75-4	N-Nitrosopiperidine	U	10	1.0	10	10	0.6
126-68-1	O,O,O-Triethylphosphorothioat	U	20	1.0	20	20	0.7
87-65-0	2,6-Dichlorophenol	U	10	1.0	10	10	0.6
1888-71-7	Hexachloropropene	U	10	1.0	10	10	0.6
122-09-8	A,A-Dimethylphenethylamine	U	10	1.0	10	10	10
924-16-3	N-Nitroso-Di-N-Butylamine	U	10	1.0	10	10	0.7
120-58-1	Isosafrole	U	20	1.0	20	20	0.8

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 01/31/03
Received Date: 02/01/03
Extraction Date: 02/05/03
Analysis Date: 03/04/03
Report Date: 03/06/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0233-7
Client ID: 0103-DUP-01
SDG: CTO233-4
Extracted by: RH
Extraction Method: SW846 3520
Analyst: JJC
Analysis Method: SW846 8270C
Lab Prep Batch: WG1575
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	p-Phenylenediamine	U	10	1.0	10	10	2
95-94-3	1,2,4,5-Tetrachlorobenzene	U	10	1.0	10	10	0.6
94-59-7	Safrole	U	10	1.0	10	10	1
130-15-4	1,4-Naphthoquinone	U	10	1.0	10	10	1
99-65-0	1,3-Dinitrobenzene	U	10	1.0	10	10	10
608-93-5	Pentachlorobenzene	U	10	1.0	10	10	0.9
	2-Naphthylamine	U	10	1.0	10	10	1
134-32-7	1-Naphthylamine	U	10	1.0	10	10	1
58-90-2	2,3,4,6-Tetrachlorophenol	U	10	1.0	10	10	1.0
	0,0-diethyl-o-2-pyrazinylphos	U	20	1.0	20	20	0.9
99-55-8	5-Nitro-O-Toluidine	U	20	1.0	20	20	0.4
	Sulfotepp	U	10	1.0	10	10	2
99-35-4	1,3,5-Trinitrobenzene	U	10	1.0	10	10	2
298-02-2	Phorate	U	10	1.0	10	10	0.6
2303-16-4	Diallate	U	20	1.0	20	20	0.6
62-44-2	Phenacetin	U	10	1.0	10	10	1
60-51-5	Dimethoate	U	10	1.0	10	10	1
92-67-1	4-Aminobiphenyl	U	10	1.0	10	10	0.2
82-68-8	Pentachloronitrobenzene	U	10	1.0	10	10	0.9
23950-58-5	Pronamide	U	10	1.0	10	10	0.9
298-04-4	Disulfoton	U	10	1.0	10	10	0.6
298-00-0	Methyl Parathion	U	10	1.0	10	10	0.5
	4-Nitroquinoline-1-Oxide	U	20	1.0	20	20	20
91-80-5	Methapyrilene	U	10	1.0	10	10	4
465-73-6	Isodrin	U	20	1.0	20	20	1
140-57-8	Aramite	U	20	1.0	20	20	3
	p-Dimethylaminoazobenzene	U	20	1.0	20	20	0.9
510-15-6	Chlorobenzilate	U	20	1.0	20	20	1
143-50-0	Kepone	U	10	1.0	10	10	10
52-85-7	Famphur	U	10	1.0	10	10	2
119-93-7	3,3'-Dimethylbenzidine	U	20	1.0	20	20	2
53-96-3	2-Acetylaminofluorene	U	10	1.0	10	10	0.9
56-49-5	3-Methylcholanthrene	U	10	1.0	10	10	0.6
57-97-6	7,12-Dimethylbenz(A)Anthracen	U	10	1.0	10	10	1
70-30-4	Hexachlorophene	U	10	1.0	10	10	10
367-12-4	2-Fluorophenol		71%				
13127-88-3	Phenol-D6		83%				
4165-60-0	Nitrobenzene-D5		68%				
321-60-8	2-Fluorobiphenyl		81%				
118-79-6	2,4,6-Tribromophenol		120%				
1718-51-0	Terphenyl-D14		82%				

Katahdin Analytical Services

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Tetra Tech NUS, Inc
Lab Smp Id: WT0233-7
Operator : JJC
Sample Location:
Sample Matrix: WATER
Analysis Type: SV
Inj Date: 04-MAR-2003 17:14

Client SDG: CTO233-4
Client Smp ID: 0103-DUP-01
Sample Date: 31-JAN-2003
Sample Point:
Date Received:01-FEB-2003 12:00
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 01/31/03
Received Date: 02/01/03
Extraction Date: 02/05/03
Analysis Date: 03/03/03
Report Date: 03/06/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0233-6
Client ID: S1MW-7-0103
SDG: CTO233-4
Extracted by: RH
Extraction Method: SW846 3520
Analyst: JJC
Analysis Method: SW846 8270C
Lab Prep Batch: WG1575
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
109-06-8	2-Picoline	U	10	1.0	10	10	1
110-86-1	Pyridine	U	50	1.0	50	50	0.8
62-75-9	N-Nitrosodimethylamine	U	20	1.0	20	20	2
62-53-3	Aniline	U	10	1.0	10	10	0.6
108-95-2	Phenol	U	10	1.0	10	10	0.8
111-44-4	Bis(2-Chloroethyl)ether	U	10	1.0	10	10	0.9
95-57-8	2-Chlorophenol	U	10	1.0	10	10	1
541-73-1	1,3-Dichlorobenzene	U	10	1.0	10	10	0.7
106-46-7	1,4-Dichlorobenzene	U	10	1.0	10	10	0.6
95-50-1	1,2-Dichlorobenzene	U	10	1.0	10	10	0.7
100-51-6	Benzyl alcohol	U	20	1.0	20	20	2
108-60-1	Bis(2-Chloroisopropyl)ether	U	10	1.0	10	10	3
95-48-7	2-Methylphenol	U	10	1.0	10	10	0.8
67-72-1	Hexachloroethane	U	10	1.0	10	10	0.6
621-64-7	N-Nitroso-di-n-propylamine	U	10	1.0	10	10	0.8
106-44-5	3&4-Methylphenol	U	10	1.0	10	10	2
98-95-3	Nitrobenzene	U	10	1.0	10	10	1
78-59-1	Isophorone	U	10	1.0	10	10	0.8
88-75-5	2-Nitrophenol	U	10	1.0	10	10	0.4
105-67-9	2,4-Dimethyphenol	U	10	1.0	10	10	0.7
111-91-1	Bis(2-Chloroethoxy)methane	U	10	1.0	10	10	1
120-83-2	2,4-Dichlorophenol	U	10	1.0	10	10	1
120-82-1	1,2,4-Trichlorobenzene	U	10	1.0	10	10	0.8
91-20-3	Naphthalene	U	10	1.0	10	10	0.6
106-47-8	4-Chloroaniline	U	10	1.0	10	10	0.5
87-68-3	Hexachlorobutadiene	U	10	1.0	10	10	0.3
59-50-7	4-Chloro-3-Methylphenol	U	10	1.0	10	10	0.8
91-57-6	2-Methylnaphthalene	U	10	1.0	10	10	0.6
77-47-4	Hexachlorocyclopentadiene	U	10	1.0	10	10	2
88-06-2	2,4,6-Trichlorophenol	U	10	1.0	10	10	0.6
95-95-4	2,4,5-Trichlorophenol	U	25	1.0	25	25	1
91-58-7	2-Chloronaphthalene	U	10	1.0	10	10	0.3
88-74-4	2-Nitroaniline	U	25	1.0	25	25	0.7
208-96-8	Acenaphthylene	U	10	1.0	10	10	0.7
131-11-3	Dimethyl Phthalate	U	10	1.0	10	10	0.9
606-20-2	2,6-Dinitrotoluene	U	10	1.0	10	10	0.5
83-32-9	Acenaphthene	U	10	1.0	10	10	0.5
99-09-2	3-Nitroaniline	U	25	1.0	25	25	0.9
51-28-5	2,4-Dinitrophenol	U	25	1.0	25	25	5
132-64-9	Dibenzofuran	U	10	1.0	10	10	0.7
100-02-7	4-Nitrophenol	U	25	1.0	25	25	3
121-14-2	2,4-Dinitrotoluene	U	10	1.0	10	10	0.9
86-73-7	Fluorene	U	10	1.0	10	10	0.8

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 01/31/03
Received Date: 02/01/03
Extraction Date: 02/05/03
Analysis Date: 03/03/03
Report Date: 03/06/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0233-6
Client ID: S1MW-7-0103
SDG: CTO233-4
Extracted by: RH
Extraction Method: SW846 3520
Analyst: JJC
Analysis Method: SW846 8270C
Lab Prep Batch: WG1575
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
84-66-2	Diethylphthalate	U	10	1.0	10	10	1
7005-72-3	4-Chlorophenyl-phenylether	U	10	1.0	10	10	0.8
100-01-6	4-Nitroaniline	U	25	1.0	25	25	1
534-52-1	4,6-Dinitro-2-Methylphenol	U	25	1.0	25	25	3
86-30-6	N-Nitrosodiphenylamine/DPA	U	10	1.0	10	10	1.0
122-66-7	1,2-Diphenylhydrazine	U	20	1.0	20	20	4
101-55-3	4-Bromophenyl-phenylether	U	10	1.0	10	10	0.7
118-74-1	Hexachlorobenzene	U	10	1.0	10	10	0.8
87-86-5	Pentachlorophenol	U	25	1.0	25	25	2
85-01-8	Phenanthrene	U	10	1.0	10	10	0.8
120-12-7	Anthracene	U	10	1.0	10	10	0.7
86-74-8	Carbazole	U	10	1.0	10	10	0.9
84-74-2	Di-n-butylphthalate	U	10	1.0	10	10	2
206-44-0	Fluoranthene	U	10	1.0	10	10	0.8
92-87-5	Benzidine	U	50	1.0	50	50	6
129-00-0	Pyrene	U	10	1.0	10	10	1
85-68-7	Butylbenzylphthalate	U	10	1.0	10	10	1
56-55-3	Benzo(a)anthracene	U	10	1.0	10	10	1.0
218-01-9	Chrysene	U	10	1.0	10	10	1
91-94-1	3,3'-Dichlorobenzidine	U	10	1.0	10	10	0.8
117-81-7	bis(2-Ethylhexyl)phthalate	U	10	1.0	10	10	2
117-84-0	Di-n-octylphthalate	U	10	1.0	10	10	1
205-99-2	Benzo(b)fluoranthene	U	10	1.0	10	10	1
207-08-9	Benzo(k)fluoranthene	U	10	1.0	10	10	2
50-32-8	Benzo(a)pyrene	U	10	1.0	10	10	1
193-39-5	Indeno(1,2,3-cd)pyrene	U	10	1.0	10	10	1
53-70-3	Dibenzo(a,h)anthracene	U	10	1.0	10	10	1
191-24-2	Benzo(g,h,i)perylene	U	10	1.0	10	10	1
10595-95-6	N-Nitrosomethylethylamine	U	10	1.0	10	10	1.0
66-27-3	Methyl Methanesulfonate	U	20	1.0	20	20	1
55-18-5	N-Nitrosodiethylamine	U	20	1.0	20	20	0.7
62-50-0	Ethyl Methanesulfonate	U	10	1.0	10	10	1
930-55-2	N-Nitrosopyrrolidine	U	10	1.0	10	10	0.9
59-89-2	N-Nitrosomorpholine	U	10	1.0	10	10	1.0
95-53-4	o-Toluidine	U	10	1.0	10	10	0.7
98-86-2	Acetophenone	U	10	1.0	10	10	0.7
100-75-4	N-Nitrosopiperidine	U	10	1.0	10	10	0.6
126-68-1	O,O,O-Triethylphosphorothioat	U	20	1.0	20	20	0.8
87-65-0	2,6-Dichlorophenol	U	10	1.0	10	10	0.6
1888-71-7	Hexachloropropene	U	10	1.0	10	10	0.6
122-09-8	A,A-Dimethylphenethylamine	U	10	1.0	10	10	10
924-16-3	N-Nitroso-Di-N-Butylamine	U	10	1.0	10	10	0.7
120-58-1	Isosafrole	U	20	1.0	20	20	0.8

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 01/31/03
Received Date: 02/01/03
Extraction Date: 02/05/03
Analysis Date: 03/03/03
Report Date: 03/06/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0233-6
Client ID: S1MW-7-0103
SDG: CTO233-4
Extracted by: RH
Extraction Method: SW846 3520
Analyst: JJC
Analysis Method: SW846 8270C
Lab Prep Batch: WG1575
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	p-Phenylenediamine	U	10	1.0	10	10	2
95-94-3	1,2,4,5-Tetrachlorobenzene	U	10	1.0	10	10	0.6
94-59-7	Safrole	U	10	1.0	10	10	1
130-15-4	1,4-Naphthoquinone	U	10	1.0	10	10	1
99-65-0	1,3-Dinitrobenzene	U	10	1.0	10	10	10
608-93-5	Pentachlorobenzene	U	10	1.0	10	10	0.9
	2-Naphthylamine	U	10	1.0	10	10	1
134-32-7	1-Naphthylamine	U	10	1.0	10	10	1
58-90-2	2,3,4,6-Tetrachlorophenol	U	10	1.0	10	10	1
	0,0-diethyl-o-2-pyrazinylphos	U	20	1.0	20	20	1.0
99-55-8	5-Nitro-O-Toluidine	U	20	1.0	20	20	0.4
	Sulfotepp	U	10	1.0	10	10	2
99-35-4	1,3,5-Trinitrobenzene	U	10	1.0	10	10	2
298-02-2	Phorate	U	10	1.0	10	10	0.6
2303-16-4	Diallate	U	20	1.0	20	20	0.6
62-44-2	Phenacetin	U	10	1.0	10	10	1
60-51-5	Dimethoate	U	10	1.0	10	10	1
92-67-1	4-Aminobiphenyl	U	10	1.0	10	10	0.2
82-68-8	Pentachloronitrobenzene	U	10	1.0	10	10	0.9
23950-58-5	Pronamide	U	10	1.0	10	10	0.9
298-04-4	Disulfoton	U	10	1.0	10	10	0.6
298-00-0	Methyl Parathion	U	10	1.0	10	10	0.6
	4-Nitroquinoline-1-Oxide	U	20	1.0	20	20	20
91-80-5	Methapyrilene	U	10	1.0	10	10	4
465-73-6	Isodrin	U	20	1.0	20	20	1
140-57-8	Aramite	U	20	1.0	20	20	3
	p-Dimethylaminoazobenzene	U	20	1.0	20	20	0.9
510-15-6	Chlorobenzilate	U	20	1.0	20	20	1
143-50-0	Kepone	U	10	1.0	10	10	10
52-85-7	Famphur	U	10	1.0	10	10	2
119-93-7	3,3'-Dimethylbenzidine	U	20	1.0	20	20	2
53-96-3	2-Acetylaminofluorene	U	10	1.0	10	10	0.9
56-49-5	3-Methylcholanthrene	U	10	1.0	10	10	0.7
57-97-6	7,12-Dimethylbenz(A)Anthracen	U	10	1.0	10	10	2
70-30-4	Hexachlorophene	U	10	1.0	10	10	10
367-12-4	2-Fluorophenol		46%				
13127-88-3	Phenol-D6		68%				
4165-60-0	Nitrobenzene-D5		80%				
321-60-8	2-Fluorobiphenyl		79%				
118-79-6	2,4,6-Tribromophenol		78%				
1718-51-0	Terphenyl-D14		76%				

Katahdin Analytical Services

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Tetra Tech NUS, Inc
Lab Smp Id: WT0233-6
Operator : JJC
Sample Location:
Sample Matrix: WATER
Analysis Type: SV
Inj Date: 03-MAR-2003 23:30

Client SDG: CTO233-4
Client Smp ID: S1MW-7-0103
Sample Date: 31-JAN-2003
Sample Point:
Date Received:01-FEB-2003 12:00
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 02/01/03
Received Date: 02/04/03
Extraction Date: 02/05/03
Analysis Date: 03/04/03
Report Date: 03/06/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0246-10
Client ID: S1SW-1-0103
SDG: CTO233-4
Extracted by: RH
Extraction Method: SW846 3520
Analyst: JJC
Analysis Method: SW846 8270C
Lab Prep Batch: WG1575
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
109-06-8	2-Picoline	U	10	1.0	10	10	1
110-86-1	Pyridine	U	50	1.0	50	50	0.8
62-75-9	N-Nitrosodimethylamine	U	20	1.0	20	20	2
62-53-3	Aniline	U	10	1.0	10	10	0.6
108-95-2	Phenol	U	10	1.0	10	10	0.8
111-44-4	Bis(2-Chloroethyl)ether	U	10	1.0	10	10	0.9
95-57-8	2-Chlorophenol	U	10	1.0	10	10	1.0
541-73-1	1,3-Dichlorobenzene	U	10	1.0	10	10	0.7
106-46-7	1,4-Dichlorobenzene	U	10	1.0	10	10	0.6
95-50-1	1,2-Dichlorobenzene	U	10	1.0	10	10	0.7
100-51-6	Benzyl alcohol	U	20	1.0	20	20	2
108-60-1	Bis(2-Chloroisopropyl)ether	U	10	1.0	10	10	3
95-48-7	2-Methylphenol	U	10	1.0	10	10	0.8
67-72-1	Hexachloroethane	U	10	1.0	10	10	0.6
621-64-7	N-Nitroso-di-n-propylamine	U	10	1.0	10	10	0.7
106-44-5	3&4-Methylphenol	U	10	1.0	10	10	2
98-95-3	Nitrobenzene	U	10	1.0	10	10	1.0
78-59-1	Isophorone	U	10	1.0	10	10	0.8
88-75-5	2-Nitrophenol	U	10	1.0	10	10	0.4
105-67-9	2,4-Dimethyphenol	U	10	1.0	10	10	0.7
111-91-1	Bis(2-Chloroethoxy)methane	U	10	1.0	10	10	1
120-83-2	2,4-Dichlorophenol	U	10	1.0	10	10	1.0
120-82-1	1,2,4-Trichlorobenzene	U	10	1.0	10	10	0.8
91-20-3	Naphthalene	U	10	1.0	10	10	0.6
106-47-8	4-Chloroaniline	U	10	1.0	10	10	0.5
87-68-3	Hexachlorobutadiene	U	10	1.0	10	10	0.3
59-50-7	4-Chloro-3-Methylphenol	U	10	1.0	10	10	0.8
91-57-6	2-Methylnaphthalene	U	10	1.0	10	10	0.6
77-47-4	Hexachlorocyclopentadiene	U	10	1.0	10	10	2
88-06-2	2,4,6-Trichlorophenol	U	10	1.0	10	10	0.6
95-95-4	2,4,5-Trichlorophenol	U	25	1.0	25	25	1
91-58-7	2-Chloronaphthalene	U	10	1.0	10	10	0.3
88-74-4	2-Nitroaniline	U	25	1.0	25	25	0.6
208-96-8	Acenaphthylene	U	10	1.0	10	10	0.7
131-11-3	Dimethyl Phthalate	U	10	1.0	10	10	0.9
606-20-2	2,6-Dinitrotoluene	U	10	1.0	10	10	0.5
83-32-9	Acenaphthene	U	10	1.0	10	10	0.5
99-09-2	3-Nitroaniline	U	25	1.0	25	25	0.8
51-28-5	2,4-Dinitrophenol	U	25	1.0	25	25	5
132-64-9	Dibenzofuran	U	10	1.0	10	10	0.7
100-02-7	4-Nitrophenol	U	25	1.0	25	25	3
121-14-2	2,4-Dinitrotoluene	U	10	1.0	10	10	0.8
86-73-7	Fluorene	U	10	1.0	10	10	0.7

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 02/01/03
Received Date: 02/04/03
Extraction Date: 02/05/03
Analysis Date: 03/04/03
Report Date: 03/06/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0246-10
Client ID: S1SW-1-0103
SDG: CTO233-4
Extracted by: RH
Extraction Method: SW846 3520
Analyst: JJC
Analysis Method: SW846 8270C
Lab Prep Batch: WG1575
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
84-66-2	Diethylphthalate	U	10	1.0	10	10	1.0
7005-72-3	4-Chlorophenyl-phenylether	U	10	1.0	10	10	0.7
100-01-6	4-Nitroaniline	U	25	1.0	25	25	1
534-52-1	4,6-Dinitro-2-Methylphenol	U	25	1.0	25	25	3
86-30-6	N-Nitrosodiphenylamine/DPA	U	10	1.0	10	10	0.9
122-66-7	1,2-Diphenylhydrazine	U	20	1.0	20	20	3
101-55-3	4-Bromophenyl-phenylether	U	10	1.0	10	10	0.7
118-74-1	Hexachlorobenzene	U	10	1.0	10	10	0.8
87-86-5	Pentachlorophenol	U	25	1.0	25	25	2
85-01-8	Phenanthrene	U	10	1.0	10	10	0.8
120-12-7	Anthracene	U	10	1.0	10	10	0.6
86-74-8	Carbazole	U	10	1.0	10	10	0.8
84-74-2	Di-n-butylphthalate	U	10	1.0	10	10	2
206-44-0	Fluoranthene	U	10	1.0	10	10	0.8
92-87-5	Benzidine	U	50	1.0	50	50	5
129-00-0	Pyrene	U	10	1.0	10	10	1
85-68-7	Butylbenzylphthalate	U	10	1.0	10	10	1
56-55-3	Benzo(a)anthracene	U	10	1.0	10	10	0.9
218-01-9	Chrysene	U	10	1.0	10	10	1
91-94-1	3,3'-Dichlorobenzidine	U	10	1.0	10	10	0.7
117-81-7	bis(2-Ethylhexyl)phthalate	U	10	1.0	10	10	1
117-84-0	Di-n-octylphthalate	U	10	1.0	10	10	1
205-99-2	Benzo(b)fluoranthene	U	10	1.0	10	10	1
207-08-9	Benzo(k)fluoranthene	U	10	1.0	10	10	1
50-32-8	Benzo(a)pyrene	U	10	1.0	10	10	1
193-39-5	Indeno(1,2,3-cd)pyrene	U	10	1.0	10	10	1.0
53-70-3	Dibenzo(a,h)anthracene	U	10	1.0	10	10	1
191-24-2	Benzo(g,h,i)perylene	U	10	1.0	10	10	1
10595-95-6	N-Nitrosomethylethylamine	U	10	1.0	10	10	0.9
66-27-3	Methyl Methanesulfonate	U	20	1.0	20	20	1
55-18-5	N-Nitrosodiethylamine	U	20	1.0	20	20	0.7
62-50-0	Ethyl Methanesulfonate	U	10	1.0	10	10	1.0
930-55-2	N-Nitrosopyrrolidine	U	10	1.0	10	10	0.9
59-89-2	N-Nitrosomorpholine	U	10	1.0	10	10	0.9
95-53-4	o-Toluidine	U	10	1.0	10	10	0.6
98-86-2	Acetophenone	U	10	1.0	10	10	0.7
100-75-4	N-Nitrosopiperidine	U	10	1.0	10	10	0.6
126-68-1	O,O,O-Triethylphosphorothioat	U	20	1.0	20	20	0.7
87-65-0	2,6-Dichlorophenol	U	10	1.0	10	10	0.6
1888-71-7	Hexachloropropene	U	10	1.0	10	10	0.6
122-09-8	A,A-Dimethylphenethylamine	U	10	1.0	10	10	10
924-16-3	N-Nitroso-Di-N-Butylamine	U	10	1.0	10	10	0.7
120-58-1	Isosafrole	U	20	1.0	20	20	0.8

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 02/01/03
Received Date: 02/04/03
Extraction Date: 02/05/03
Analysis Date: 03/04/03
Report Date: 03/06/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0246-10
Client ID: S1SW-1-0103
SDG: CTO233-4
Extracted by: RH
Extraction Method: SW846 3520
Analyst: JJC
Analysis Method: SW846 8270C
Lab Prep Batch: WG1575
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	p-Phenylenediamine	U	10	1.0	10	10	2
95-94-3	1,2,4,5-Tetrachlorobenzene	U	10	1.0	10	10	0.6
94-59-7	Safrole	U	10	1.0	10	10	1
130-15-4	1,4-Naphthoquinone	U	10	1.0	10	10	1
99-65-0	1,3-Dinitrobenzene	U	10	1.0	10	10	10
608-93-5	Pentachlorobenzene	U	10	1.0	10	10	0.8
	2-Naphthylamine	U	10	1.0	10	10	1
134-32-7	1-Naphthylamine	U	10	1.0	10	10	1
58-90-2	2,3,4,6-Tetrachlorophenol	U	10	1.0	10	10	1.0
	0,0-diethyl-o-2-pyrazinylphos	U	20	1.0	20	20	0.9
99-55-8	5-Nitro-O-Toluidine	U	20	1.0	20	20	0.3
	Sulfotepp	U	10	1.0	10	10	2
99-35-4	1,3,5-Trinitrobenzene	U	10	1.0	10	10	2
298-02-2	Phorate	U	10	1.0	10	10	0.6
2303-16-4	Diallate	U	20	1.0	20	20	0.6
62-44-2	Phenacetin	U	10	1.0	10	10	1
60-51-5	Dimethoate	U	10	1.0	10	10	1
92-67-1	4-Aminobiphenyl	U	10	1.0	10	10	0.2
82-68-8	Pentachloronitrobenzene	U	10	1.0	10	10	0.8
23950-58-5	Pronamide	U	10	1.0	10	10	0.9
298-04-4	Disulfoton	U	10	1.0	10	10	0.6
298-00-0	Methyl Parathion	U	10	1.0	10	10	0.5
	4-Nitroquinoline-1-Oxide	U	20	1.0	20	20	19
91-80-5	Methapyrilene	U	10	1.0	10	10	4
465-73-6	Isodrin	U	20	1.0	20	20	1
140-57-8	Aramite	U	20	1.0	20	20	3
	p-Dimethylaminoazobenzene	U	20	1.0	20	20	0.9
510-15-6	Chlorobenzilate	U	20	1.0	20	20	1
143-50-0	Kepone	U	10	1.0	10	10	10
52-85-7	Famphur	U	10	1.0	10	10	2
119-93-7	3,3'-Dimethylbenzidine	U	20	1.0	20	20	1
53-96-3	2-Acetylaminofluorene	U	10	1.0	10	10	0.8
56-49-5	3-Methylcholanthrene	U	10	1.0	10	10	0.6
57-97-6	7,12-Dimethylbenz(A)Anthracen	U	10	1.0	10	10	1
70-30-4	Hexachlorophene	U	10	1.0	10	10	10
367-12-4	2-Fluorophenol		64%				
13127-88-3	Phenol-D6		70%				
4165-60-0	Nitrobenzene-D5		66%				
321-60-8	2-Fluorobiphenyl		74%				
118-79-6	2,4,6-Tribromophenol		110%				
1718-51-0	Terphenyl-D14		37%				

Katahdin Analytical Services

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Tetra Tech NUS, Inc
Lab Smp Id: WT0246-10
Operator : JJC
Sample Location:
Sample Matrix: WATER
Analysis Type: SV
Inj Date: 04-MAR-2003 17:59

Client SDG: CTO233-4
Client Smp ID: S1SW-1-0103
Sample Date: 01-FEB-2003
Sample Point:
Date Received:04-FEB-2003 12:00
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 02/01/03
Received Date: 02/04/03
Extraction Date: 02/05/03
Analysis Date: 03/03/03
Report Date: 03/06/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0246-11
Client ID: S1SW-2-0103
SDG: CTO233-4
Extracted by: RH
Extraction Method: SW846 3520
Analyst: JJC
Analysis Method: SW846 8270C
Lab Prep Batch: WG1575
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
109-06-8	2-Picoline	U	10	1.0	10	10	1
110-86-1	Pyridine	U	50	1.0	50	50	0.8
62-75-9	N-Nitrosodimethylamine	U	20	1.0	20	20	2
62-53-3	Aniline	U	10	1.0	10	10	0.5
108-95-2	Phenol	U	10	1.0	10	10	0.8
111-44-4	Bis(2-Chloroethyl)ether	U	10	1.0	10	10	0.8
95-57-8	2-Chlorophenol	U	10	1.0	10	10	0.9
541-73-1	1,3-Dichlorobenzene	U	10	1.0	10	10	0.7
106-46-7	1,4-Dichlorobenzene	U	10	1.0	10	10	0.6
95-50-1	1,2-Dichlorobenzene	U	10	1.0	10	10	0.7
100-51-6	Benzyl alcohol	U	20	1.0	20	20	2
108-60-1	Bis(2-Chloroisopropyl)ether	U	10	1.0	10	10	3
95-48-7	2-Methylphenol	U	10	1.0	10	10	0.8
67-72-1	Hexachloroethane	U	10	1.0	10	10	0.6
621-64-7	N-Nitroso-di-n-propylamine	U	10	1.0	10	10	0.7
106-44-5	3&4-Methylphenol	U	10	1.0	10	10	2
98-95-3	Nitrobenzene	U	10	1.0	10	10	1.0
78-59-1	Isophorone	U	10	1.0	10	10	0.7
88-75-5	2-Nitrophenol	U	10	1.0	10	10	0.4
105-67-9	2,4-Dimethyphenol	U	10	1.0	10	10	0.6
111-91-1	Bis(2-Chloroethoxy)methane	U	10	1.0	10	10	1
120-83-2	2,4-Dichlorophenol	U	10	1.0	10	10	1.0
120-82-1	1,2,4-Trichlorobenzene	U	10	1.0	10	10	0.8
91-20-3	Naphthalene	U	10	1.0	10	10	0.5
106-47-8	4-Chloroaniline	U	10	1.0	10	10	0.5
87-68-3	Hexachlorobutadiene	U	10	1.0	10	10	0.3
59-50-7	4-Chloro-3-Methylphenol	U	10	1.0	10	10	0.7
91-57-6	2-Methylnaphthalene	U	10	1.0	10	10	0.6
77-47-4	Hexachlorocyclopentadiene	U	10	1.0	10	10	2
88-06-2	2,4,6-Trichlorophenol	U	10	1.0	10	10	0.6
95-95-4	2,4,5-Trichlorophenol	U	25	1.0	25	25	1.0
91-58-7	2-Chloronaphthalene	U	10	1.0	10	10	0.3
88-74-4	2-Nitroaniline	U	25	1.0	25	25	0.6
208-96-8	Acenaphthylene	U	10	1.0	10	10	0.7
131-11-3	Dimethyl Phthalate	U	10	1.0	10	10	0.8
606-20-2	2,6-Dinitrotoluene	U	10	1.0	10	10	0.5
83-32-9	Acenaphthene	U	10	1.0	10	10	0.5
99-09-2	3-Nitroaniline	U	25	1.0	25	25	0.8
51-28-5	2,4-Dinitrophenol	U	25	1.0	25	25	5
132-64-9	Dibenzofuran	U	10	1.0	10	10	0.7
100-02-7	4-Nitrophenol	U	25	1.0	25	25	3
121-14-2	2,4-Dinitrotoluene	U	10	1.0	10	10	0.8
86-73-7	Fluorene	U	10	1.0	10	10	0.7

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 02/01/03
Received Date: 02/04/03
Extraction Date: 02/05/03
Analysis Date: 03/03/03
Report Date: 03/06/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0246-11
Client ID: S1SW-2-0103
SDG: CTO233-4
Extracted by: RH
Extraction Method: SW846 3520
Analyst: JJC
Analysis Method: SW846 8270C
Lab Prep Batch: WG1575
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
84-66-2	Diethylphthalate	U	10	1.0	10	10	1.0
7005-72-3	4-Chlorophenyl-phenylether	U	10	1.0	10	10	0.7
100-01-6	4-Nitroaniline	U	25	1.0	25	25	1.0
534-52-1	4,6-Dinitro-2-Methylphenol	U	25	1.0	25	25	3
86-30-6	N-Nitrosodiphenylamine/DPA	U	10	1.0	10	10	0.9
122-66-7	1,2-Diphenylhydrazine	U	20	1.0	20	20	3
101-55-3	4-Bromophenyl-phenylether	U	10	1.0	10	10	0.7
118-74-1	Hexachlorobenzene	U	10	1.0	10	10	0.8
87-86-5	Pentachlorophenol	U	25	1.0	25	25	2
85-01-8	Phenanthrene	U	10	1.0	10	10	0.7
120-12-7	Anthracene	U	10	1.0	10	10	0.6
86-74-8	Carbazole	U	10	1.0	10	10	0.8
84-74-2	Di-n-butylphthalate	U	10	1.0	10	10	2
206-44-0	Fluoranthene	U	10	1.0	10	10	0.8
92-87-5	Benzidine	U	50	1.0	50	50	5
129-00-0	Pyrene	U	10	1.0	10	10	1
85-68-7	Butylbenzylphthalate	U	10	1.0	10	10	1
56-55-3	Benzo(a)anthracene	U	10	1.0	10	10	0.9
218-01-9	Chrysene	U	10	1.0	10	10	1.0
91-94-1	3,3'-Dichlorobenzidine	U	10	1.0	10	10	0.7
117-81-7	bis(2-Ethylhexyl)phthalate	U	10	1.0	10	10	1
117-84-0	Di-n-octylphthalate	U	10	1.0	10	10	1.0
205-99-2	Benzo(b)fluoranthene	U	10	1.0	10	10	1.0
207-08-9	Benzo(k)fluoranthene	U	10	1.0	10	10	1
50-32-8	Benzo(a)pyrene	U	10	1.0	10	10	1.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	10	1.0	10	10	1.0
53-70-3	Dibenzo(a,h)anthracene	U	10	1.0	10	10	1
191-24-2	Benzo(g,h,i)perylene	U	10	1.0	10	10	1
10595-95-6	N-Nitrosomethylethylamine	U	10	1.0	10	10	0.9
66-27-3	Methyl Methanesulfonate	U	20	1.0	20	20	1
55-18-5	N-Nitrosodiethylamine	U	20	1.0	20	20	0.7
62-50-0	Ethyl Methanesulfonate	U	10	1.0	10	10	1.0
930-55-2	N-Nitrosopyrrolidine	U	10	1.0	10	10	0.9
59-89-2	N-Nitrosomorpholine	U	10	1.0	10	10	0.9
95-53-4	o-Toluidine	U	10	1.0	10	10	0.6
98-86-2	Acetophenone	U	10	1.0	10	10	0.6
100-75-4	N-Nitrosopiperidine	U	10	1.0	10	10	0.6
126-68-1	O,O,O-Triethylphosphorothioat	U	20	1.0	20	20	0.7
87-65-0	2,6-Dichlorophenol	U	10	1.0	10	10	0.6
1888-71-7	Hexachloropropene	U	10	1.0	10	10	0.6
122-09-8	A,A-Dimethylphenethylamine	U	10	1.0	10	10	9
924-16-3	N-Nitroso-Di-N-Butylamine	U	10	1.0	10	10	0.7
120-58-1	Isosafrole	U	20	1.0	20	20	0.8

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 02/01/03
Received Date: 02/04/03
Extraction Date: 02/05/03
Analysis Date: 03/03/03
Report Date: 03/06/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0246-11
Client ID: S1SW-2-0103
SDG: CTO233-4
Extracted by: RH
Extraction Method: SW846 3520
Analyst: JJC
Analysis Method: SW846 8270C
Lab Prep Batch: WG1575
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	p-Phenylenediamine	U	10	1.0	10	10	2
95-94-3	1,2,4,5-Tetrachlorobenzene	U	10	1.0	10	10	0.6
94-59-7	Safrole	U	10	1.0	10	10	1
130-15-4	1,4-Naphthoquinone	U	10	1.0	10	10	1
99-65-0	1,3-Dinitrobenzene	U	10	1.0	10	10	9
608-93-5	Pentachlorobenzene	U	10	1.0	10	10	0.8
	2-Naphthylamine	U	10	1.0	10	10	1
134-32-7	1-Naphthylamine	U	10	1.0	10	10	1
58-90-2	2,3,4,6-Tetrachlorophenol	U	10	1.0	10	10	0.9
	0,0-diethyl-o-2-pyrazinylphos	U	20	1.0	20	20	0.9
99-55-8	5-Nitro-O-Toluidine	U	20	1.0	20	20	0.3
	Sulfotepp	U	10	1.0	10	10	2
99-35-4	1,3,5-Trinitrobenzene	U	10	1.0	10	10	2
298-02-2	Phorate	U	10	1.0	10	10	0.6
2303-16-4	Diallate	U	20	1.0	20	20	0.6
62-44-2	Phenacetin	U	10	1.0	10	10	1
60-51-5	Dimethoate	U	10	1.0	10	10	1
92-67-1	4-Aminobiphenyl	U	10	1.0	10	10	0.2
82-68-8	Pentachloronitrobenzene	U	10	1.0	10	10	0.8
23950-58-5	Pronamide	U	10	1.0	10	10	0.9
298-04-4	Disulfoton	U	10	1.0	10	10	0.6
298-00-0	Methyl Parathion	U	10	1.0	10	10	0.5
	4-Nitroquinoline-1-Oxide	U	20	1.0	20	20	19
91-80-5	Methapyrilene	U	10	1.0	10	10	4
465-73-6	Isodrin	U	20	1.0	20	20	1
140-57-8	Aramite	U	20	1.0	20	20	3
	p-Dimethylaminoazobenzene	U	20	1.0	20	20	0.9
510-15-6	Chlorobenzilate	U	20	1.0	20	20	1
143-50-0	Kepone	U	10	1.0	10	10	9
52-85-7	Famphur	U	10	1.0	10	10	2
119-93-7	3,3'-Dimethylbenzidine	U	20	1.0	20	20	1
53-96-3	2-Acetylaminofluorene	U	10	1.0	10	10	0.8
56-49-5	3-Methylcholanthrene	U	10	1.0	10	10	0.6
57-97-6	7,12-Dimethylbenz(A)Anthracen	U	10	1.0	10	10	1
70-30-4	Hexachlorophene	U	10	1.0	10	10	9
367-12-4	2-Fluorophenol		* 15%				
13127-88-3	Phenol-D6		45%				
4165-60-0	Nitrobenzene-D5		61%				
321-60-8	2-Fluorobiphenyl		79%				
118-79-6	2,4,6-Tribromophenol		44%				
1718-51-0	Terphenyl-D14		41%				

Katahdin Analytical Services

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Tetra Tech NUS, Inc
Lab Smp Id: WT0246-11
Operator : JJC
Sample Location:
Sample Matrix: WATER
Analysis Type: SV
Inj Date: 03-MAR-2003 22:45

Client SDG: CTO233-4
Client Smp ID: S1SW-2-0103
Sample Date: 01-FEB-2003
Sample Point:
Date Received:04-FEB-2003 12:00
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 01/31/03
Received Date: 02/01/03
Extraction Date: 02/04/03
Analysis Date: 02/28/03
Report Date: 03/05/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0233-3
Client ID: FC-MW-05-0103
SDG: CTO233-4
Extracted by: RH
Extraction Method: SW846 3510
Analyst: JJC
Analysis Method: SW846 M8270C
Lab Prep Batch: WG1567
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.049
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.078
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.049
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.078
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.059
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.078
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.078
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.11
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.088
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.069
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.088
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.078
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.088
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.098
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.15
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.078
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.078
4165-60-0	Nitrobenzene-D5		121%				
321-60-8	2-Fluorobiphenyl		66%				
1718-51-0	Terphenyl-D14		62%				

Katahdin Analytical Services

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Tetra Tech NUS, Inc
Lab Smp Id: WT0233-3
Operator : JJC
Sample Location:
Sample Matrix: WATER
Analysis Type: SV
Inj Date: 28-FEB-2003 20:45

Client SDG: CTO233-4
Client Smp ID: FC-MW-05-0103
Sample Date: 31-JAN-2003
Sample Point:
Date Received:01-FEB-2003 12:00
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 01/31/03
Received Date: 02/01/03
Extraction Date: 02/04/03
Analysis Date: 02/28/03
Report Date: 03/05/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0233-3
Client ID: FC-MW-05-0103-RA
SDG: CTO233-4
Extracted by: RH
Extraction Method: SW846 3510
Analyst: JJC
Analysis Method: SW846 M8270C
Lab Prep Batch: WG1567
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.049
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.078
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.049
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.078
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.059
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.078
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.078
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.11
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.088
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.069
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.088
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.078
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.088
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.098
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.15
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.078
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.078
4165-60-0	Nitrobenzene-D5		97%				
321-60-8	2-Fluorobiphenyl		64%				
1718-51-0	Terphenyl-D14		68%				

Katahdin Analytical Services

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Tetra Tech NUS, Inc
Lab Smp Id: WT0233-3
Operator : JJC
Sample Location:
Sample Matrix: WATER
Analysis Type: SV
Inj Date: 28-FEB-2003 22:49

Client SDG: CTO233-4
Client Smp ID: FC-MW-05-0103-RA
Sample Date: 31-JAN-2003
Sample Point:
Date Received:01-FEB-2003 12:00
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 01/31/03
Received Date: 02/01/03
Extraction Date: 02/04/03
Analysis Date: 02/28/03
Report Date: 03/05/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0233-1
Client ID: FC-MW-06-0103
SDG: CTO233-4
Extracted by: RH
Extraction Method: SW846 3510
Analyst: JJC
Analysis Method: SW846 M8270C
Lab Prep Batch: WG1567
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.047
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.075
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.047
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.075
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.057
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.075
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.075
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.10
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.085
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.11
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.066
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.085
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.075
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.085
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.094
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.14
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.075
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.075
4165-60-0	Nitrobenzene-D5		79%				
321-60-8	2-Fluorobiphenyl		63%				
1718-51-0	Terphenyl-D14		65%				

Katahdin Analytical Services

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Tetra Tech NUS, Inc
Lab Smp Id: WT0233-1
Operator : JJC
Sample Location:
Sample Matrix: WATER
Analysis Type: SV
Inj Date: 28-FEB-2003 19:22

Client SDG: CTO233-4
Client Smp ID: FC-MW-06-0103
Sample Date: 31-JAN-2003
Sample Point:
Date Received:01-FEB-2003 12:00
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 01/31/03
Received Date: 02/01/03
Extraction Date: 02/04/03
Analysis Date: 03/05/03
Report Date: 03/05/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0233-2
Client ID: FC-MW-20R-0103
SDG: CTO233-4
Extracted by: RH
Extraction Method: SW846 3510
Analyst: JJC
Analysis Method: SW846 M8270C
Lab Prep Batch: WG1567
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene		630	250	0.20	52	13
91-57-6	2-Methylnaphthalene		180	250	0.20	52	21
208-96-8	Acenaphthylene	U	52	250	0.20	52	13
83-32-9	Acenaphthene	U	52	250	0.20	52	21
86-73-7	Fluorene	U	52	250	0.20	52	15
85-01-8	Phenanthrene	U	52	250	0.20	52	21
120-12-7	Anthracene	U	52	250	0.20	52	21
206-44-0	Fluoranthene	U	52	250	0.20	52	28
129-00-0	Pyrene	U	52	250	0.20	52	23
56-55-3	Benzo(a)anthracene	U	52	250	0.20	52	31
218-01-9	Chrysene	U	52	250	0.20	52	18
205-99-2	Benzo(b)fluoranthene	U	52	250	0.20	52	23
207-08-9	Benzo(k)fluoranthene	U	52	250	0.20	52	21
50-32-8	Benzo(a)pyrene	U	52	250	0.20	52	23
193-39-5	Indeno(1,2,3-cd)pyrene	U	52	250	0.20	52	26
53-70-3	Dibenzo(a,h)anthracene	U	52	250	0.20	52	39
191-24-2	Benzo(g,h,i)perylene	U	52	250	0.20	52	21
90-12-0	1-Methylnaphthalene	J	46	250	0.20	52	21
4165-60-0	Nitrobenzene-D5		D				
321-60-8	2-Fluorobiphenyl		D				
1718-51-0	Terphenyl-D14		D				

Katahdin Analytical Services

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Tetra Tech NUS, Inc
Lab Smp Id: WT0233-2
Operator : JJC
Sample Location:
Sample Matrix: WATER
Analysis Type: SV
Inj Date: 05-MAR-2003 15:16

Client SDG: CTO233-4
Client Smp ID: FC-MW-20R-0103
Sample Date: 31-JAN-2003
Sample Point:
Date Received:01-FEB-2003 12:00
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 01/31/03
Received Date: 02/01/03
Extraction Date: 02/04/03
Analysis Date: 02/20/03
Report Date: 02/21/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0233-7
Client ID: 0103-DUP-01
SDG: CTO233-4
Extracted by: RH
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 8081A
Lab Prep Batch: WG1560
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
319-84-6	alpha-BHC	U	0.050	1.0	0.050	0.050	0.025
58-89-9	gamma BHC	U	0.050	1.0	0.050	0.050	0.022
76-44-8	Heptachlor	U	0.050	1.0	0.050	0.050	0.024
319-85-7	beta-BHC	U	0.050	1.0	0.050	0.050	0.042
309-00-2	Aldrin	U	0.050	1.0	0.050	0.050	0.022
319-86-8	delta-BHC	U	0.050	1.0	0.050	0.050	0.029
1024-57-3	Heptachlor Epoxide	U	0.050	1.0	0.050	0.050	0.023
959-98-8	Endosulfan I	U	0.050	1.0	0.050	0.050	0.018
72-55-9	4,4'-DDE	U	0.10	1.0	0.10	0.10	0.028
60-57-1	Dieldrin	U	0.10	1.0	0.10	0.10	0.017
72-20-8	Endrin	U	0.10	1.0	0.10	0.10	0.018
72-54-8	4,4'-DDD	U	0.10	1.0	0.10	0.10	0.028
33213-65-9	Endosulfan II	U	0.10	1.0	0.10	0.10	0.016
50-29-3	4,4'-DDT	U	0.10	1.0	0.10	0.10	0.030
7421-36-3	Endrin Aldehyde	U	0.10	1.0	0.10	0.10	0.021
1031-07-8	Endosulfan sulfate	U	0.10	1.0	0.10	0.10	0.023
72-43-5	Methoxychlor	U	0.50	1.0	0.50	0.50	0.045
8001-35-2	Toxaphene	U	1.0	1.0	1.0	1.0	0.92
5103-71-9	alpha-Chlordane	U	0.050	1.0	0.050	0.050	0.019
5103-74-2	gamma-Chlordane	U	0.050	1.0	0.050	0.050	0.019
53494-70-5	Endrin Ketone	U	0.10	1.0	0.10	0.10	0.020
12789-03-6	Chlordane	U	0.50	1.0	0.50	0.50	0.15
877-09-8	Tetrachloro-m-Xylene		79%				
2051-24-3	Decachlorobiphenyl		88%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 01/31/03
Received Date: 02/01/03
Extraction Date: 02/04/03
Analysis Date: 02/20/03
Report Date: 02/21/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0233-6
Client ID: S1MW-7-0103
SDG: CTO233-4
Extracted by: RH
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 8081A
Lab Prep Batch: WG1560
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
319-84-6	alpha-BHC	U	0.050	1.0	0.050	0.050	0.025
58-89-9	gamma BHC	U	0.050	1.0	0.050	0.050	0.022
76-44-8	Heptachlor	U	0.050	1.0	0.050	0.050	0.024
319-85-7	beta-BHC	U	0.050	1.0	0.050	0.050	0.042
309-00-2	Aldrin	U	0.050	1.0	0.050	0.050	0.022
319-86-8	delta-BHC	U	0.050	1.0	0.050	0.050	0.029
1024-57-3	Heptachlor Epoxide	U	0.050	1.0	0.050	0.050	0.023
959-98-8	Endosulfan I	U	0.050	1.0	0.050	0.050	0.018
72-55-9	4,4'-DDE	U	0.10	1.0	0.10	0.10	0.028
60-57-1	Dieldrin	U	0.10	1.0	0.10	0.10	0.017
72-20-8	Endrin	U	0.10	1.0	0.10	0.10	0.018
72-54-8	4,4'-DDD	U	0.10	1.0	0.10	0.10	0.028
33213-65-9	Endosulfan II	U	0.10	1.0	0.10	0.10	0.016
50-29-3	4,4'-DDT	U	0.10	1.0	0.10	0.10	0.030
7421-36-3	Endrin Aldehyde	U	0.10	1.0	0.10	0.10	0.021
1031-07-8	Endosulfan sulfate	U	0.10	1.0	0.10	0.10	0.023
72-43-5	Methoxychlor	U	0.50	1.0	0.50	0.50	0.045
8001-35-2	Toxaphene	U	1.0	1.0	1.0	1.0	0.93
5103-71-9	alpha-Chlordane	U	0.050	1.0	0.050	0.050	0.019
5103-74-2	gamma-Chlordane	U	0.050	1.0	0.050	0.050	0.019
53494-70-5	Endrin Ketone	U	0.10	1.0	0.10	0.10	0.020
12789-03-6	Chlordane	U	0.50	1.0	0.50	0.50	0.15
877-09-8	Tetrachloro-m-Xylene		72%				
2051-24-3	Decachlorobiphenyl		84%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 02/01/03
Received Date: 02/04/03
Extraction Date: 02/07/03
Analysis Date: 02/20/03
Report Date: 02/21/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0246-11
Client ID: S1SW-2-0103
SDG: CTO233-4
Extracted by: JCG
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 8081A
Lab Prep Batch: WG1590
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
319-84-6	alpha-BHC	U	0.050	1.0	0.050	0.050	0.024
58-89-9	gamma BHC	U	0.050	1.0	0.050	0.050	0.021
76-44-8	Heptachlor	U	0.050	1.0	0.050	0.050	0.023
319-85-7	beta-BHC	U	0.050	1.0	0.050	0.050	0.041
309-00-2	Aldrin	U	0.050	1.0	0.050	0.050	0.021
319-86-8	delta-BHC	U	0.050	1.0	0.050	0.050	0.028
1024-57-3	Heptachlor Epoxide	U	0.050	1.0	0.050	0.050	0.022
959-98-8	Endosulfan I	U	0.050	1.0	0.050	0.050	0.017
72-55-9	4,4'-DDE	U	0.10	1.0	0.10	0.10	0.027
60-57-1	Dieldrin	U	0.10	1.0	0.10	0.10	0.016
72-20-8	Endrin	U	0.10	1.0	0.10	0.10	0.017
72-54-8	4,4'-DDD	U	0.10	1.0	0.10	0.10	0.027
33213-65-9	Endosulfan II	U	0.10	1.0	0.10	0.10	0.016
50-29-3	4,4'-DDT	U	0.10	1.0	0.10	0.10	0.029
7421-36-3	Endrin Aldehyde	U	0.10	1.0	0.10	0.10	0.020
1031-07-8	Endosulfan sulfate	U	0.10	1.0	0.10	0.10	0.022
72-43-5	Methoxychlor	U	0.50	1.0	0.50	0.50	0.044
8001-35-2	Toxaphene	U	1.0	1.0	1.0	1.0	0.89
5103-71-9	alpha-Chlordane	U	0.050	1.0	0.050	0.050	0.018
5103-74-2	gamma-Chlordane	U	0.050	1.0	0.050	0.050	0.018
53494-70-5	Endrin Ketone	U	0.10	1.0	0.10	0.10	0.019
12789-03-6	Chlordane	U	0.50	1.0	0.50	0.50	0.14
877-09-8	Tetrachloro-m-Xylene		65%				
2051-24-3	Decachlorobiphenyl		72%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project:
PO No:
Sample Date: 01/31/03
Received Date: 02/01/03
Extraction Date: 02/06/03
Analysis Date: 02/19/03
Report Date: 02/26/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0233-3
Client ID: FC-MW-05-0103
SDG: CTO233-4
Extracted by: AB
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG1582
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	500	1.0	500	500	270
	n-Triacontane-D62		125%				
	O-Terphenyl		104%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project:
PO No:
Sample Date: 01/31/03
Received Date: 02/01/03
Extraction Date: 02/06/03
Analysis Date: 02/19/03
Report Date: 02/26/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0233-1
Client ID: FC-MW-06-0103
SDG: CTO233-4
Extracted by: AB
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG1582
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	500	1.0	500	500	270
	n-Triacontane-D62		122%				
	O-Terphenyl		98%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 01/31/03
Received Date: 02/01/03
Extraction Date: 02/06/03
Analysis Date: 02/20/03
Report Date: 02/21/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0233-2
Client ID: FC-MW-20R-0103
SDG: CTO233-4
Extracted by: AB
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG1582
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics		8200	2.0	500	1000	570
	n-Triacontane-D62		142%				
	O-Terphenyl		112%				

APPENDIX C

SUPPORT DOCUMENTATION

FIELD DUPLICATE PRECISION

ANALYTE	0103-DUP-06	S9MW-14-0103	RPD	DIFFERENCE
1,1-Dichloroethene	1	0.9	10.53	0.1
Benzene	1	1	0.00	0
cis-1,2-Dichloroethene	1300	1000	26.09	300
total 1,2-Dichloroethene	5300	4100	25.53	1200
trans-1,2-Dichloroethene	4000	3000	28.57	1000
ANALYTE	**0103-DUP-01**	**S1MW-7-0103**	**RPD**	**DIFFERENCE**
No compounds detected.			#DIV/0!	0

Spada, Bernie

From: Lee, Ethan
Sent: Wednesday, March 05, 2003 1:08 PM
To: Spada, Bernie
Subject: FW: field duplicate for CTO-233

-----Original Message-----
From: McRee, Emily
Sent: Wednesday, March 05, 2003 1:00 PM
To: Lee, Ethan
Subject: FW: field duplicate for CTO-233

Here is the duplicate information for the entire sampling event.

-----Original Message-----
From: McRee, Emily
Sent: Friday, February 28, 2003 2:24 PM
To: Spada, Bernie
Subject: RE: field duplicate for CTO-233

0103-DUP-06 MATCHES S9MW-14-0103

0103-DUP-01	S1MW-7-0103
0103-DUP-02	S1SD-1-0103
0103-DUP-03	S7SW-5-0103
0103-DUP-04	I1MW1-1-0103
0103-DUP-05	I1SD-1-0103

That's all the duplicates we collected. Let me know if you need anything else.

Emily

-----Original Message-----
From: Spada, Bernie
Sent: Friday, February 28, 2003 8:25 AM
To: McRee, Emily
Subject: RE: field duplicate for CTO-233

Emily,

Any luck on finding that duplicate?

Bernie

-----Original Message-----
From: McRee, Emily
Sent: Wednesday, February 26, 2003 7:32 AM
To: Spada, Bernie
Subject: RE: field duplicate for CTO-233

Bernie, I am out in the field right now but will get you the duplicate information tomorrow or Friday. Sorry for the delay. Thanks.

Emily

-----Original Message-----
From: Spada, Bernie
To: McRee, Emily

Sent: 2/26/03 7:23 AM
Subject: field duplicate for CTO-233

Emily,

Which sample was paired with the Key West CTO-233 SDG-P0302042 duplicate 0103-DUP-06 sampled on February 1? If there are other duplicates associated with this project, please send all the pairings. Thank you for your time.

Bernard F Spada III

Bernard F Spada III

Environmental Scientist

TETRA TECH NUS, Inc.

Foster Plaza 7

661 Andersen Drive

Pittsburgh, PA 15220-2745

Telephone: (412) 921-8729

FAX: (412) 921-4040

spadab@ttnus.com <mailto:spadab@ttnus.com>

<http://www.ttnus.com/> http://www.ttnus.com

http://www.tetratech.com <http://www.tetratech.com/>

2334

HOLDING TIME
03/13/03

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/L	0103-DUP-06	WT0246-8	NORMAL	2334	CL	02/01/03	02/28/03	02/28/03	27	0	27
MG/L	0103-DUP-06DUP	WT0246-8 DUP	DUPLICATE	2334	CL	02/01/03	02/28/03	02/28/03	27	0	27
MG/L	LABQC	MBLANK	P BLANK	2334	CL	02/07/03	02/27/03	02/27/03	20	0	20
MG/L	S9MW-12-0103	WT0246-2	NORMAL	2334	CL	02/03/03	02/27/03	02/27/03	24	0	24
MG/L	S9MW-12-0103DUP	WT0246-2 DUP	DUPLICATE	2334	CL	02/03/03	02/27/03	02/27/03	24	0	24
MG/L	S9MW-12-0103MS	WT0246-2 MS	MS	2334	CL	02/03/03	02/27/03	02/27/03	24	0	24
MG/L	S9MW-14-0103	WT0246-3	NORMAL	2334	CL	02/01/03	02/27/03	02/27/03	26	0	26
MG/L	S9MW-15-0103	WT0246-4	NORMAL	2334	CL	02/01/03	02/27/03	02/27/03	26	0	26
MG/L	S9MW-21-0103	WT0246-5	NORMAL	2334	CL	02/02/03	02/27/03	02/27/03	25	0	25
MG/L	S9MW-22-0103	WT0246-13	NORMAL	2334	CL	02/02/03	02/28/03	02/28/03	26	0	26
MG/L	S9MW-24-0103	WT0246-6	NORMAL	2334	CL	02/02/03	02/28/03	02/28/03	26	0	26
MG/L	S9MW-25-0103	WT0246-7	NORMAL	2334	CL	02/02/03	02/28/03	02/28/03	26	0	26
MG/L	S9MW-5-0103	WT0246-1	NORMAL	2334	CL	02/01/03	02/27/03	02/27/03	26	0	26
%	FC-MW-05-0103	WT0233-3	NORMAL	2334	EDB	01/31/03	02/10/03	02/10/03	10	0	10
%	FC-MW-06-0103	WT0233-1	NORMAL	2334	EDB	01/31/03	02/10/03	02/10/03	10	0	10
%	FC-MW-20R-0103	WT0233-2	NORMAL	2334	EDB	01/31/03	02/10/03	02/10/03	10	0	10
%	WG1604-BLANK	WG1604-1	P BLANK	2334	EDB	02/10/03	02/10/03	02/10/03	0	0	0
%	WG1604-LCS	WG1604-2	LCS	2334	EDB	02/10/03	02/10/03	02/10/03	0	0	0
%	WG1604-LCSD	WG1604-3	LCSD	2334	EDB	02/10/03	02/10/03	02/10/03	0	0	0
UG/L	0103-DUP-01	WT0233-007	NORMAL	2334	HG	01/31/03	02/11/03	02/11/03	11	0	11
UG/L	I8MW8-1-0103	WT0233-004	NORMAL	2334	HG	01/31/03	02/11/03	02/11/03	11	0	11
UG/L	I8MW8-2-0103	WT0233-005	NORMAL	2334	HG	01/31/03	02/11/03	02/11/03	11	0	11
UG/L	LABQC	PBWTB11HGW0	LCSD	2334	HG	02/27/03	02/11/03	02/11/03	-16	0	-16
UG/L	S1MW-7-0103	WT0233-006	NORMAL	2334	HG	01/31/03	02/11/03	02/11/03	11	0	11

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	S1SW-1-0103	WT0246-010	NORMAL	2334	HG	02/01/03	02/11/03	02/11/03	10	0	10
UG/L	S1SW-2-0103	WT0246-011	NORMAL	2334	HG	02/01/03	02/11/03	02/11/03	10	0	10
UG/L	S1SW-3-0103	WT0246-012	NORMAL	2334	HG	02/01/03	02/11/03	02/11/03	10	0	10
UG/L	0103-DUP-01	WT0233-007	NORMAL	2334	M	01/31/03	02/05/03	02/06/03	5	1	6
UG/L	FC-MW-05-0103	WT0233-003	NORMAL	2334	M	01/31/03	02/05/03	02/12/03	5	7	12
UG/L	FC-MW-06-0103	WT0233-001	NORMAL	2334	M	01/31/03	02/05/03	02/12/03	5	7	12
UG/L	FC-MW-20R-0103	WT0233-002	NORMAL	2334	M	01/31/03	02/05/03	02/12/03	5	7	12
UG/L	I8MW8-1-0103	WT0233-004	NORMAL	2334	M	01/31/03	02/05/03	02/06/03	5	1	6
UG/L	I8MW8-1-0103MS	WT0233-004S	MS	2334	M	01/31/03	02/05/03	02/06/03	5	1	6
UG/L	I8MW8-1-0103MSD	WT0233-004P	MSD	2334	M	01/31/03	02/05/03	02/06/03	5	1	6
UG/L	I8MW8-2-0103	WT0233-005	NORMAL	2334	M	01/31/03	02/05/03	02/06/03	5	1	6
UG/L	LABQC	PBWTB07ICW0	P BLANK	2334	M	02/07/03	02/07/03	02/10/03	0	3	3
UG/L	S1MW-7-0103	WT0233-006	NORMAL	2334	M	01/31/03	02/05/03	02/06/03	5	1	6
UG/L	S1SW-1-0103	WT0246-010	NORMAL	2334	M	02/01/03	02/07/03	02/11/03	6	4	10
UG/L	S1SW-2-0103	WT0246-011	NORMAL	2334	M	02/01/03	02/07/03	02/25/03	6	18	24
UG/L	S1SW-3-0103	WT0246-012	NORMAL	2334	M	02/01/03	02/07/03	02/13/03	6	6	12
UG/L	0103-DUP-01	WT0233-7	NORMAL	2334	OS	01/31/03	02/05/03	03/04/03	5	27	32
UG/L	S1MW-7-0103	WT0233-6	NORMAL	2334	OS	01/31/03	02/05/03	03/03/03	5	26	31
UG/L	S1SW-1-0103	WT0246-10	NORMAL	2334	OS	02/01/03	02/05/03	03/04/03	4	27	31
UG/L	S1SW-2-0103	WT0246-11	NORMAL	2334	OS	02/01/03	02/05/03	03/03/03	4	26	30
UG/L	WG1575-BLANK	WG1575-1	P BLANK	2334	OS	02/04/03	02/05/03	03/03/03	1	26	27
UG/L	WG1575-LCS	WG1575-2	LCS	2334	OS	02/04/03	02/05/03	03/04/03	1	27	28
UG/L	WG1575-LCSD	WG1575-3	LCSD	2334	OS	02/04/03	02/05/03	03/05/03	1	28	29
UG/L	0103-DUP-01	WT0233-7	NORMAL	2334	OV	01/31/03	02/07/03	02/07/03	7	0	7
UG/L	0103-DUP-06	WT0246-8	NORMAL	2334	OV	02/01/03	02/07/03	02/07/03	6	0	6
UG/L	0103-DUP-06DL	WT0246-8DL	DL	2334	OV	02/01/03	02/10/03	02/10/03	9	0	9
UG/L	FC-MW-05-0103	WT0233-3	NORMAL	2334	OV	01/31/03	02/06/03	02/06/03	6	0	6

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	FC-MW-06-0103	WT0233-1	NORMAL	2334	OV	01/31/03	02/07/03	02/07/03	7	0	7
UG/L	FC-MW-20R-0103	WT0233-2	NORMAL	2334	OV	01/31/03	02/06/03	02/06/03	6	0	6
UG/L	S1MW-5-0103	WT0246-9	NORMAL	2334	OV	02/01/03	02/10/03	02/10/03	9	0	9
UG/L	S1MW-7-0103	WT0233-6	NORMAL	2334	OV	01/31/03	02/07/03	02/07/03	7	0	7
UG/L	S9MW-12-0103	WT0246-2	NORMAL	2334	OV	02/03/03	02/07/03	02/07/03	4	0	4
UG/L	S9MW-14-0103	WT0246-3	NORMAL	2334	OV	02/01/03	02/07/03	02/07/03	6	0	6
UG/L	S9MW-14-0103DL	WT0246-3DL	DL	2334	OV	02/01/03	02/10/03	02/10/03	9	0	9
UG/L	S9MW-15-0103	WT0246-4	NORMAL	2334	OV	02/01/03	02/07/03	02/07/03	6	0	6
UG/L	S9MW-15-0103DL	WT0246-4DL	DL	2334	OV	02/01/03	02/10/03	02/10/03	9	0	9
UG/L	S9MW-21-0103	WT0246-5	NORMAL	2334	OV	02/02/03	02/10/03	02/10/03	8	0	8
UG/L	S9MW-22-0103	WT0246-13	NORMAL	2334	OV	02/02/03	02/07/03	02/07/03	5	0	5
UG/L	S9MW-22-0103DL	WT0246-13DL	DL	2334	OV	02/02/03	02/10/03	02/10/03	8	0	8
UG/L	S9MW-24-0103	WT0246-6	NORMAL	2334	OV	02/02/03	02/07/03	02/07/03	5	0	5
UG/L	S9MW-24-0103DL	WT0246-6DL	DL	2334	OV	02/02/03	02/10/03	02/10/03	8	0	8
UG/L	S9MW-25-0103	WT0246-7	NORMAL	2334	OV	02/02/03	02/07/03	02/07/03	5	0	5
UG/L	S9MW-5-0103	WT0246-1	NORMAL	2334	OV	02/01/03	02/07/03	02/07/03	6	0	6
UG/L	S9MW-5-0103MS	WG1695-3	MS	2334	OV	02/01/03	02/10/03	02/10/03	9	0	9
UG/L	S9MW-5-0103MSD	WG1695-4	MSD	2334	OV	02/01/03	02/10/03	02/10/03	9	0	9
UG/L	TB-013103	WT0233-8	NORMAL	2334	OV	01/21/03	02/07/03	02/07/03	17	0	17
UG/L	TB-020303	WT0246-14	NORMAL	2334	OV	01/21/03	02/07/03	02/07/03	17	0	17
UG/L	WG1669-BLANK	WG1669-1	P BLANK	2334	OV	02/05/03	02/05/03	02/05/03	0	0	0
UG/L	WG1669-LCS	WG1669-2	LCS	2334	OV	02/05/03	02/05/03	02/05/03	0	0	0
UG/L	WG1670-BLANK	WG1670-1	P BLANK	2334	OV	02/07/02	02/07/03	02/07/03	365	0	365
UG/L	WG1670-LCS	WG1670-2	LCS	2334	OV	02/07/02	02/07/03	02/07/03	365	0	365
UG/L	WG1691-BLANK	WG1691-1	P BLANK	2334	OV	02/07/03	02/07/03	02/07/03	0	0	0
UG/L	WG1691-LCS	WG1691-2	LCS	2334	OV	02/07/03	02/07/03	02/07/03	0	0	0
UG/L	WG1695-BLANK	WG1695-1	P BLANK	2334	OV	02/10/03	02/10/03	02/10/03	0	0	0

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	WG1695-LCS	WG1695-2	LCS	2334	OV	02/10/03	02/10/03	02/10/03	0	0	0
UG/L	0103-DUP-01	WT0233-7	NORMAL	2334	PEST	01/31/03	02/04/03	02/20/03	4	16	20
UG/L	S1MW-7-0103	WT0233-6	NORMAL	2334	PEST	01/31/03	02/04/03	02/20/03	4	16	20
UG/L	S1SW-2-0103	WT0246-11	NORMAL	2334	PEST	02/01/03	02/07/03	02/20/03	6	13	19
UG/L	WG1560-BLANK	WG1560-1	P BLANK	2334	PEST	02/03/03	02/04/03	02/20/03	1	16	17
UG/L	WG1560-LCS	WG1560-2	LCS	2334	PEST	02/03/03	02/04/03	02/20/03	1	16	17
UG/L	WG1560-LCSD	WG1560-3	LCSD	2334	PEST	02/03/03	02/04/03	02/20/03	1	16	17
UG/L	WG1590-BLANK	WG1590-1	P BLANK	2334	PEST	02/06/03	02/07/03	02/17/03	1	10	11
UG/L	WG1590-LCS	WG1590-2	LCS	2334	PEST	02/06/03	02/07/03	02/17/03	1	10	11
%	FC-MW-05-0103	WT0233-3	NORMAL	2334	SIM	01/31/03	02/04/03	02/28/03	4	24	28
%	FC-MW-05-0103RA	WT0233-3RA	NORMAL	2334	SIM	01/31/03	02/04/03	02/28/03	4	24	28
%	FC-MW-06-0103	WT0233-1	NORMAL	2334	SIM	01/31/03	02/04/03	02/28/03	4	24	28
%	FC-MW-20R-0103	WT0233-2	NORMAL	2334	SIM	01/31/03	02/04/03	03/05/03	4	29	33
%	WG1567-BLANK	WG1567-1	P BLANK	2334	SIM	02/04/03	02/04/03	02/28/03	0	24	24
%	WG1567-LCS	WG1567-2	LCS	2334	SIM	02/04/03	02/04/03	02/28/03	0	24	24
%	WG1567-LCSD	WG1567-3	LCSD	2334	SIM	02/04/03	02/04/03	02/28/03	0	24	24
MG/L	0103-DUP-06	WT0246-8	NORMAL	2334	SO4	02/01/03	02/28/03	02/28/03	27	0	27
MG/L	0103-DUP-06DUP	WT0246-8 DUP	DUPLICATE	2334	SO4	02/01/03	02/28/03	02/28/03	27	0	27
MG/L	LABQC	MBLANK	P BLANK	2334	SO4	02/28/03	02/28/03	02/28/03	0	0	0
MG/L	S9MW-12-0103	WT0246-2	NORMAL	2334	SO4	02/03/03	02/27/03	02/27/03	24	0	24
MG/L	S9MW-12-0103DUP	WT0246-2 DUP	DUPLICATE	2334	SO4	02/03/03	02/27/03	02/27/03	24	0	24
MG/L	S9MW-12-0103MS	WT0246-2 MS	MS	2334	SO4	02/03/03	02/27/03	02/27/03	24	0	24
MG/L	S9MW-14-0103	WT0246-3	NORMAL	2334	SO4	02/01/03	02/27/03	02/27/03	26	0	26
MG/L	S9MW-15-0103	WT0246-4	NORMAL	2334	SO4	02/01/03	02/27/03	02/27/03	26	0	26
MG/L	S9MW-21-0103	WT0246-5	NORMAL	2334	SO4	02/02/03	02/27/03	02/27/03	25	0	25
MG/L	S9MW-22-0103	WT0246-13	NORMAL	2334	SO4	02/02/03	02/28/03	02/28/03	26	0	26
MG/L	S9MW-24-0103	WT0246-6	NORMAL	2334	SO4	02/02/03	02/28/03	02/28/03	26	0	26

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/L	S9MW-25-0103	WT0246-7	NORMAL	2334	SO4	02/02/03	02/28/03	02/28/03	26	0	26
MG/L	S9MW-5-0103	WT0246-1	NORMAL	2334	SO4	02/01/03	02/27/03	02/27/03	26	0	26
MG/L	0103-DUP-06	WT0246-8	NORMAL	2334	SUL	02/01/03	02/06/03	02/06/03	5	0	5
MG/L	LABQC	MBLANK	LCSD	2334	SUL	02/06/03	02/06/03	02/06/03	0	0	0
MG/L	S9MW-12-0103	WT0246-2	NORMAL	2334	SUL	02/03/03	02/06/03	02/06/03	3	0	3
MG/L	S9MW-14-0103	WT0246-3	NORMAL	2334	SUL	02/01/03	02/06/03	02/06/03	5	0	5
MG/L	S9MW-15-0103	WT0246-4	NORMAL	2334	SUL	02/01/03	02/06/03	02/06/03	5	0	5
MG/L	S9MW-21-0103	WT0246-5	NORMAL	2334	SUL	02/02/03	02/06/03	02/06/03	4	0	4
MG/L	S9MW-22-0103	WT0246-13	NORMAL	2334	SUL	02/02/03	02/06/03	02/06/03	4	0	4
MG/L	S9MW-24-0103	WT0246-6	NORMAL	2334	SUL	02/02/03	02/06/03	02/06/03	4	0	4
MG/L	S9MW-25-0103	WT0246-7	NORMAL	2334	SUL	02/02/03	02/06/03	02/06/03	4	0	4
MG/L	S9MW-5-0103	WT0246-1	NORMAL	2334	SUL	02/01/03	02/06/03	02/06/03	5	0	5
MG/L	0103-DUP-06	WT0246-8	NORMAL	2334	TOC	02/01/03	02/06/03	02/06/03	5	0	5
MG/L	0103-DUP-06MS	WT0246-8 MS	MS	2334	TOC	02/01/03	02/06/03	02/06/03	5	0	5
MG/L	LABQC	MBLANK	P BLANK	2334	TOC	02/28/03	02/06/03	02/06/03	-22	0	-22
MG/L	S9MW-12-0103	WT0246-2	NORMAL	2334	TOC	02/03/03	02/06/03	02/06/03	3	0	3
MG/L	S9MW-14-0103	WT0246-3	NORMAL	2334	TOC	02/01/03	02/06/03	02/06/03	5	0	5
MG/L	S9MW-15-0103	WT0246-4	NORMAL	2334	TOC	02/01/03	02/06/03	02/06/03	5	0	5
MG/L	S9MW-21-0103	WT0246-5	NORMAL	2334	TOC	02/02/03	02/06/03	02/06/03	4	0	4
MG/L	S9MW-22-0103	WT0246-13	NORMAL	2334	TOC	02/02/03	02/06/03	02/06/03	4	0	4
MG/L	S9MW-24-0103	WT0246-6	NORMAL	2334	TOC	02/02/03	02/06/03	02/06/03	4	0	4
MG/L	S9MW-25-0103	WT0246-7	NORMAL	2334	TOC	02/02/03	02/06/03	02/06/03	4	0	4
MG/L	S9MW-25-0103DUP	WT0246-7 DUP	DUPLICATE	2334	TOC	02/02/03	02/06/03	02/06/03	4	0	4
MG/L	S9MW-5-0103	WT0246-1	NORMAL	2334	TOC	02/01/03	02/06/03	02/06/03	5	0	5
UG/L	FC-MW-05-0103	WT0233-3	NORMAL	2334	TPH	01/31/03	02/06/03	02/19/03	6	13	19
UG/L	FC-MW-06-0103	WT0233-1	NORMAL	2334	TPH	01/31/03	02/06/03	02/19/03	6	13	19
UG/L	FC-MW-20R-0103	WT0233-2	NORMAL	2334	TPH	01/31/03	02/06/03	02/20/03	6	14	20

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	WG1582-BLANK	WG1582-1	P BLANK	2334	TPH	02/05/03	02/06/03	02/19/03	1	13	14
UG/L	WG1582-LCS	WG1582-2	LCS	2334	TPH	02/05/03	02/06/03	02/19/03	1	13	14
UG/L	WG1582-LCSD	WG1582-3	LCSD	2334	TPH	02/05/03	02/06/03	02/19/03	1	13	14

Katahdin
ANALYTICAL SERVICES

Cert. No. E87604

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
TETRA TECH NUS
CASE NAF KEY WEST CTO 233
TASK ORDER MANAGER: CHARLES BRYAN
CTO233-4

Sample Receipt

The following samples were received on February 1 and 4, 2003 and were logged in under Katahdin Analytical Services work order numbers WT0233 and WT0246 for a hardcopy due date of March 4, 2003.

KATAHDIN Sample No.	TTNUS Sample Identification
WT0233-1	FC-MW-06-0103
WT0233-2	FC-MW-20R-0103
WT0233-3	FC-MW-05-0103
WT0233-4	I8MW8-1-0103
WT0233-5	I8MW8-2-0103
WT0233-6	S1MW-7-0103
WT0233-7	0103-DUP-01
WT0233-8	TB-013103
WT0246-1	S9MW-5-0103
WT0246-2	S9MW-12-0103
WT0246-3	S9MW-14-0103
WT0246-4	S9MW-15-0103
WT0246-5	S9MW-21-0103
WT0246-6	S9MW-24-0103
WT0246-7	S9MW-25-0103
WT0246-8	0103-DUP-06
WT0246-9	S1MW-5-0103
WT0246-10	S1SW-1-0103
WT0246-11	S1SW-2-0103
WT0246-12	S1SW-3-0103
WT0246-13	S9MW-22-0103
WT0246-14	TB-020303

The samples were logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Andrea J. Colby**. This narrative is an integral part of the Report of Analysis.

Organics Laboratory

Samples WT0233-1 through -8 were received on February 1, 2003. Samples WT0246-1 through -14 were received on February 4, 2003. Some of the samples were analyzed for pesticides according to SW846 8081A and/or petroleum range organics (PRO) according to Florida DEP FL-PRO, and/or Ethylene dibromide (EDB) according to method EPA 504.1 and/or Volatile Organics according to EPA SW-846 8260B and/or semivolatiles according to SW846 method 8270C (Appendix IX) and/or PAHs using SIM analysis in order to achieve lower detection limits. The samples were extracted and analyzed within holding time, and all QC criteria were acceptable with the following comments:

8081 Analysis

The laboratory control sample (LCS) WG1590-2 had low recoveries for the extraction surrogate DCB on both channels. Since the recoveries for TCX were acceptable, no corrective action was taken.

The closing calibration verification standard (CV) (files 8TB1232 and 8TB2232) had high responses for seven analytes on channel A and six analytes on channel B. These responses resulted in %D's that were outside the method limit of 15%. The associated samples may be biased accordingly for the aforementioned analytes.

The closing CV (files 8TB3070 and 8TB4070) had high responses for Endrin ketone on both channels, as well as high responses for beta-BHC and 4,4'-DDD on channel A. All of these responses resulted in %D's that were outside of the method acceptance limit of 15%. Since these responses would indicate a high biased and the samples did not detect any analytes above the MDL, the sample data quality should not be affected.

The opening CV (file 8TB4084) had a low response for delta-BHC on channel B, which resulted in %D's that were outside the method acceptance limit of 15%. The associated samples may be biased low for delta-BHC on channel B.

All samples and the associated QC were put through a sulfur cleanup according to SW846 method 3660 using the copper powder technique.

PRO Analysis

Sample WT0233-2 was diluted in order to bring the high PRO concentration into the calibration range.

504.1 Analysis

The closing CV (file 3TB1027) had a high response for the surrogate TCMX, which resulted in a %D that was outside of the method acceptance limit of 30%. The associated samples may be biased high for the surrogate on both channels.

8260 Analysis

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) and Matrix spike samples (MS/MSD's) are statistically derived. Katahdin standard operating procedure is to not take corrective action until greater than ten percent of the spiked analytes in the LCS are outside of QC limits.

The calibration method analyzed for Appendix Nine analytes for these work orders had several analytes with %RSD values exceeding the method acceptance limit of 15%. For those analytes, either a linear or quadratic model was used for quantitation. The following four analytes failed for both the linear and quadratic models in the initial calibration, Iodomethane, Acetonitrile, Carbon tetrachloride, and 1,4-Dioxane. These four compounds were calibrated using the quadratic model. Since these analytes were not detected above the MDL for any of the associated samples and all other QC criteria was met, the associated samples were not reanalyzed. Bromomethane failed for both the linear and quadratic models in the 8260 initial calibration. This compound was calibrated using the quadratic model. Since this analyte was not detected above the MDL for any of the associated samples and all other QC criteria was met, the associated samples were not reanalyzed.

Some manual integrations were performed due to split peaks and corrected baselines. All have been flagged with a "M" (software-generated) on the pertinent quantitation reports.

The matrix spike sample WG1695-3 and matrix spike duplicate sample WG1695-4 had low and/or high recoveries for several analytes. The %RPD's between WG1695-3 and WG1695-4 for these analytes were outside of the acceptance limit of 20%. These deviations are likely due to the matrix of the sample.

Samples WT0246-3, -4, -6, -8, and -13 were reanalyzed at a dilution in order to bring one or more target analytes into the calibration range.

8270 Analysis

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) and Matrix spike samples (MS/MSD's) are statistically derived. Katahdin standard operating procedure is to not take corrective action until greater than ten percent of the spiked analytes in the LCS are outside of QC limits.

In the Appendix IX calibration curve analyzed for these workorders, there were eight Appendix IX analytes and two 8270 analytes that had %RSD values exceeding the method acceptance criteria of 15%. The calibration curve for SIM analysis of PAHs was compliant.

Some manual integrations were performed due to split peaks and/or corrected baselines. All have been flagged with an "M" (software generated) on the pertinent quantitation reports.

Sample WT0233-2 was diluted 1:250 in order to bring one or more high concentration target analytes into the calibration range. Consequently, the extraction surrogates were diluted out of range.

Sample WT0233-3 was analyzed twice due to high recoveries for the internal surrogates. The reanalysis also had a high internal surrogate confirming a matrix effect. The results for both analyses are reported.

Sample WT0246-11 had a low recovery for the extraction surrogate 2-Fluorophenol, which was outside of the laboratory established acceptance limits. Since the other surrogates were acceptable the sample was not reanalyzed.

There were no other protocol deviations or observations noted by the organics laboratory staff.

Metals Analysis

The samples of Katahdin SDG CTO233-4 were prepared and analyzed for metals in accordance with the "Test Methods for Evaluating Aqueous Waste", SW-846, November 1986, Third Edition.

Inductively-Coupled Plasma Atomic Emission Spectroscopic Analysis (ICP)

Aqueous-matrix Katahdin Sample Nos. WT0233-(1-7) were digested for ICP analysis on 02/05/03 (QC Batch TB05ICW1) in accordance with USEPA Method 3010A. Katahdin Sample No. WT0233-4 was prepared with duplicate matrix-spiked aliquots.

Aqueous-matrix Katahdin Sample Nos. WT0246-(10-12) were digested for ICP analysis on 02/07/03 (QC Batch TB07ICW0) in accordance with USEPA Method 3010A. Duplicate laboratory control samples were prepared in this batch.

ICP analyses of SDG CTO233-4 sample digestates were performed using a Thermo Jarrell Ash (TJA) Trace ICP spectrometer and a TJA 61E ICP spectrometer. All samples were analyzed within holding times and all analytical run QC criteria were met, with the following comments or exceptions:

Some of the results for run QC samples (ICV, ICB, CCV, CCB, ICSA, and ICSAB) included in the accompanying data package may have exceeded acceptance limits for some elements. Please note that all client samples and batch QC samples associated with out-of-control results for run QC samples were subsequently reanalyzed for the analytes in question.

Several samples required dilution prior to analysis due to matrix interference.

Analysis of Mercury by Cold Vapor Atomic Absorption (CVAA)

Aqueous-matrix Katahdin Sample Nos. WT0233-(4-7) and WT0246-(10-12) were digested for mercury analysis on 02/11/03 (QC Batch TB11HGW0) in accordance with USEPA Method 7470A. Duplicate laboratory control samples were prepared in this batch.

Mercury analyses of Katahdin SDG CTO233-4 sample digestates were performed using a Leeman Labs PS200 automated mercury analyzer. All samples were analyzed within holding times and all analytical run QC criteria were met.

Matrix QC Summary

Element recoveries for both of the matrix-spiked aliquots of Katahdin Sample No.WT0233-4 were within the laboratory's matrix spike recovery acceptance criteria (75% - 125% recovery of the added element, if the native concentration is less than four times the amount added) for all analytes except selenium.

The matrix-spike duplicate precision analysis of Katahdin Sample No. WT0233-4 was within the laboratory's acceptance limit (<20% relative percent difference between duplicate matrix-spiked aliquots) for all analytes.

The serial dilution analysis of Katahdin Sample No. WT0233-4 was within the laboratory's acceptance limit (<10% relative percent difference, if the concentration in the original sample is greater than 50 times the IDL) for all analytes.

Wet Chemistry Analysis

Samples were received on February 4, 2003 and logged in as work order WT0246. Analyses for Total Organic Carbon, and Sulfide were performed according to "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020, 1979, Revised 1983. Analyses for Chloride and Sulfate were performed according to U.S. EPA "Methods for the Determination of Inorganic Substances in Environmental Samples", EPA 600/R-93/100, August 1993.

All analyses were performed within analytical hold time. All quality control criteria were met.

No other deviations were noted by the Wet Chemistry group.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Operations Manager or the Quality Assurance Officer as verified by the following signature.

Maria Crouch
03.07.03
Maria Crouch
Quality Assurance Officer

WTO233 HWTO234 ~~HWTO235~~

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 3844 | PAGE 1 OF 1

PROJECT NO: CTOs 207 + 233	FACILITY: NAF Key West	PROJECT MANAGER: Chuck Bryan	PHONE NUMBER: 803-649-7963	LABORATORY NAME AND CONTACT: Andrea Colby - Katahdin
SAMPLERS (SIGNATURE): [signatures]		FIELD OPERATIONS LEADER: Emily McKee	PHONE NUMBER: 305-216-8854	ADDRESS: 340 County Rd. No. 5
		CARRIER/WAYBILL NUMBER: FedEx 8370 0119 8795		CITY, STATE: Westbrook, ME

STANDARD TAT ☒ RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G, G, G, G, P, P, G, G, G

PRESERVATIVE USED: HCl, HCl, HCl, —, HNO3, HNO3, —, —, HCl

DATE YEAR 2003	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	PPL VOCs	EDB	TRPH	PAHs	Lead	TAL Metals + Tin	App IX SVOCs	App IX Pesticides	App IX VOCs	COMMENTS
1/31	0845	FC-MW-06-0103	MW-6	—	—	GW	G	10	X	X	X	X	X					CTO 207
1/31	0857	FC-MW-20R-0103	MW-20R	—	—	GW	G	10	X	X	X	X	X					CTO 207
1/31	1010	FC-MW-05-0103	MW-5	—	—	GW	G	10	X	X	X	X	X					CTO 207
1/31	1225	I8MW8-1-0103	MW-1	—	—	GW	G	1						X				CTO 233
1/31	1125	I8MW8-2-0103	MW-2	—	—	GW	G	1						X				CTO 233
1/31	1427	SIMW-7-0103	MW-7	—	—	GW	G	8						X	X	X	X	CTO 233
1/31	—	0103-DUP-01	—	—	—	GW	G	8						X	X	X	X	CTO 233
1/31	1520	SISD-5-0103	SD-5	—		SD	G	2						X		X		CTO 233
1/31	1535	SISD-2-0103	SD-2	—		SD	G	2						X		X		CTO 233
1/21		TB-013103	—	—		QC	—	2								X		

1. RELINQUISHED BY: [signature]	DATE: 1/31/03	TIME: 1730	1. RECEIVED BY: [signature]	DATE: 2-1-03	TIME: 10:30
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

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TETRA TECH NUS, INC. | **CHAIN OF CUSTODY** | **NUMBER** 3843 | **PAGE** 1 **OF** 2

PROJECT NO: CTO 233	**FACILITY:** NAT KW	**PROJECT MANAGER** Chuck Bryan	**PHONE NUMBER** 803-649-7963	**LABORATORY NAME AND CONTACT:** Katahdin - Andrea Colby
SAMPLERS (SIGNATURE) Emily McKee		**FIELD OPERATIONS LEADER** Emily McKee	**PHONE NUMBER** 305-216-8854	**ADDRESS** 340 County Rd. No. 5
		CARRIER/WAYBILL NUMBER 8370 0119 8784		**CITY, STATE** Westbrook, ME 04092

STANDARD TAT ☒ **RUSH TAT** ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE (YEAR 2003)	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)									PRESERVATIVE USED					TYPE OF ANALYSIS					COMMENTS
									G	P	P	G	G	G	G						App IX VOC + cis-1,2-DCE	Sulfide	Sulfate+Chloride	TOC	App IX VOC	TAL Metals + Tin	App IX SVOC	App IX Pesticide	
										HCl	ZnAc NaOH		H_2SO_4	HCl	HNO3 (pH<2)	G (pH<2)												
2/1	0937	S9MW-5-0103	MW-5	—	—	GW	G	7	3	1	1	2																
2/3	0835	S9MW-12-0103	MW-12	—	—	GW	G	7	3	1	1	2																
2/1	1550	S9MW-14-0103	MW-14	—	—	GW	G	7	3	1	1	2																
2/1	1515	S9MW-15-0103	MW-15	—	—	GW	G	7	3	1	1	2																
2/2	1440	S9MW-21-0603	MW-21	—	—	GW	G	7	3	1	1	2																
2/2	1420	S9MW-22-0103	MW-22	—	—	GW	G	7	3	1	1	2																
2/2	0920	S9MW-24-0103	MW-24	—	—	GW	G	7	3	1	1	2																
2/2	1005	S9MW-25-0103	MW-25	—	—	GW	G	7	3	1	1	2																
2/1	—	0103-DUP-06	—	—	—	GW	G	7	3	1	1	2																
2/1	1205	S1MW-5-0103	MW-5	—	—	GW	G	3					3															
2/1	0942	S1SD-1-0103	SD-1	—	—	SD	G	3						1	1	1												
2/1	0942	S1SD-1-0103-MS	SD-1	—	—	SD	G	3						1	1	1												
2/1	0942	S1SD-1-0103-MSD	SD-1	—	—	SD	G	3						1	1	1												

1. RELINQUISHED BY Emily McKee	DATE 2/3/03	TIME 1500	1. RECEIVED BY	DATE 2-4-03	TIME 0915
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

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WTO246 + WTO247

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 3842 | PAGE 2 OF 2

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
		CARRIER/WAYBILL NUMBER		CITY, STATE

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2003	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)									PRESERVATIVE USED									TYPE OF ANALYSIS									COMMENTS
																											TAL Metals + Tin		App IX SVOC		App IX Pest		App IX VOC		
2/1	—	0103-DUP-02	—	—	—	SD	G	3	1		1		1																								
2/1	0924	SISD-2-0103	—	—	—	SD	G	2	1				1																								
2/1	1020	SISD-3-0103	SD-3	—	—	SD	G	2	1				1																								
2/1	0942	SISW-1-0103	SW-1	—	—	SW	G	3	1		2																										
2/1	0924	SISW-2-0103	SW-2	—	—	SW	G	5	1		2		2																								
2/1	1020	SISW-3-0103	SW-3	—	—	SW	G	1	1																												
1/21	—	TB-020303	—	—	—	QC	—	2						2																								

1. RELINQUISHED BY	DATE	TIME	1. RECEIVED BY	DATE 3-4-03 TIME 0915
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE TIME

COMMENTS

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FORM NO. TtNUS-001

010000

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Lab File ID: SB657 BFB Injection Date: 11/21/02

Instrument ID: GCMS-S BFB Injection Time: 0710

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.8
75	30.0 - 60.0% of mass 95	46.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.2
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	70.8
175	4.0 - 9.0% of mass 174	6.0 (8.4)1
176	95.0 - 101.0% of mass 174	70.2 (99.1)1
177	5.0 - 9.0% of mass 176	4.4 (6.2)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD050S21A	S5031	11/21/02	0741
02		VSTD020S21A	S5032	11/21/02	0814
03		VSTD010S21A	S5033	11/21/02	0847
04		VSTD005S21A	S5034	11/21/02	0920
05		VSTD200S21A	S5035	11/21/02	0953
06		VSTD100S21A	S5036	11/21/02	1026
07					
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FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GCMS-S Calibration Date(s): 11/21/02 11/21/02

Column: RTX-VMS ID: 0.18 (mm) Calibration Time(s): 0741 1026

LAB FILE ID: RF5: S5034 RF10: S5033 RF20: S5032
RF50: S5031 RF100: S5036 RF200: S5035

COMPOUND	RF5	RF10	RF20	RF50	RF100	RF200	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2	MAX %RSD OR R^2	
Dichlorodifluoromethane	0.771	0.732	0.702	0.750	0.671	0.666	AVRG		0.71524		6.000	15.000	
Chloromethane	0.947	1.114	1.081	1.088	0.968	0.991	AVRG		1.03143		6.879	15.000	
Vinyl chloride	0.867	0.829	0.813	0.826	0.728	0.723	AVRG		0.79768		7.388	15.000	
Bromomethane	6495	11901	18206	70422	139340	292740	LINR	7e-002	2.36512		0.99805	0.99000	
Chloroethane	0.446	0.482	0.471	0.501	0.390	0.403	AVRG		0.44879		9.950	15.000	
Trichlorofluoromethane	0.818	0.850	0.829	0.867	0.786	0.801	AVRG		0.82521		3.645	15.000	
1,1-Dichloroethene	0.571	0.556	0.607	0.592	0.532	0.533	AVRG		0.56517		5.433	15.000	
Carbon Disulfide	2.091	2.117	2.057	2.220	1.944	1.938	AVRG		2.06122		5.227	15.000	
Iodomethane	9410	8087	9670	45467	196000	401180	2ORDR	0.21395	1.80249	-7e-002	0.98465	0.99000	<-
Acrolein	0.035	0.033	0.030	0.039	0.032	0.031	AVRG		3e-002		9.667	15.000	
Methylene Chloride	0.849	0.761	0.739	0.754	0.683	0.677	AVRG		0.74403		8.430	15.000	
Acetone	4757	11273	17628	67711	123220	225050	LINR	-0.1146	15.2732		0.99428	0.99000	
Isobutyl Alcohol	8602	16116	24799	89645	195630	379140	LINR	1.06246	36.2503		0.99885	0.99000	
trans-1,2-Dichloroethene	0.672	0.658	0.648	0.653	0.614	0.611	AVRG		0.64267		3.867	15.000	
Allyl Chloride	0.772	0.707	0.714	0.981	0.706	0.831	AVRG		0.78531		13.739	15.000	
Acetonitrile	1156	3222	6099	22414	31271	60357	2ORDR	0.46135	80.7926	99.5198	0.98827	0.99000	<-
Chloroprene	0.905	0.908	0.714	0.755	0.894	0.912	AVRG		0.84807		10.504	15.000	
Methacrylonitrile	0.254	0.250	0.224	0.292	0.257	0.249	AVRG		0.25403		8.638	15.000	
Propionitrile	0.042	0.047	0.041	0.057	0.046	0.045	AVRG		5e-002		12.758	15.000	
1,1-Dichloroethane	1.266	1.182	1.149	1.288	1.147	1.141	AVRG		1.19552		5.444	15.000	
Acrylonitrile	0.115	0.107	0.107	0.148	0.124	0.125	AVRG		0.12081		12.669	15.000	
Vinyl Acetate	13235	19051	39463	153210	327960	686730	LINR	0.12656	1.50705		0.99682	0.99000	
cis-1,2-Dichloroethene	0.723	0.683	0.707	0.723	0.656	0.668	AVRG		0.69342		4.133	15.000	
1,2-Dichloroethylene (total)	1.395	1.342	1.355	1.376	1.269	1.280	AVRG		1.33609		3.841	15.000	
Methyl Methacrylate	0.196	0.217	0.194	0.239	0.227	0.235	AVRG		0.21801		9.031	15.000	
Chloroform	1.099	1.111	1.123	1.178	1.066	1.088	AVRG		1.11080		3.430	15.000	
Carbon Tetrachloride	12172	17159	18948	62662	246450	495460	2ORDR	0.15435	2.43262	-0.2128	0.98748	0.99000	<-
1,1,1-Trichloroethane	0.924	0.798	0.773	0.849	0.814	0.834	AVRG		0.83231		6.301	15.000	
2-Butanone	0.052	0.052	0.042	0.060	0.060	0.061	AVRG		5e-002		13.899	15.000	
Benzene	1.734	1.706	1.684	1.777	1.551	1.614	AVRG		1.67781		4.919	15.000	
Ethyl Methacrylate	0.321	0.364	0.329	0.425	0.391	0.421	AVRG		0.37520		11.951	15.000	
1,2-Dichloroethane	0.476	0.452	0.412	0.485	0.455	0.475	AVRG		0.45934		5.744	15.000	
Trichloroethene	0.437	0.412	0.465	0.435	0.374	0.385	AVRG		0.41771		8.238	15.000	
Dibromomethane	5676	7099	13826	51311	116580	224780	LINR	9e-002	4.59464		0.99861	0.99000	
1,2-Dichloropropane	0.434	0.423	0.420	0.462	0.398	0.421	AVRG		0.42633		4.910	15.000	
Bromodichloromethane	0.539	0.481	0.371	0.459	0.501	0.524	AVRG		0.47936		12.593	15.000	
cis-1,3-dichloropropene	17313	35225	32454	153850	363920	697290	LINR	9e-002	1.47966		0.99677	0.99000	
1,4-Dioxane	3109	4810	8551	23626	31707	23732	2ORDR	-16.321	1207.97	-5791.6	0.57008	0.99000	<-
2-Chloroethylvinylether	389	835	1120	5366	10850	19847	LINR	5e-002	51.8520		0.99747	0.99000	
Toluene	0.992	0.926	0.964	0.982	0.898	0.930	AVRG		0.94883		3.864	15.000	
4-methyl-2-pentanone	0.209	0.220	0.191	0.257	0.231	0.236	AVRG		0.22395		10.248	15.000	
Tetrachloroethene	0.266	0.346	0.348	0.358	0.327	0.334	AVRG		0.32979		10.083	15.000	
trans-1,3-Dichloropropene	11975	27300	32310	122600	282080	548620	LINR	8e-002	1.89072		0.99790	0.99000	
1,1,2-Trichloroethane	0.247	0.249	0.236	0.254	0.246	0.254	AVRG		0.24773		2.670	15.000	

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GCMS-S Calibration Date(s): 11/21/02 11/21/02

Column: RTX-VMS ID: 0.18 (mm) Calibration Time(s): 0741 1026

LAB FILE ID: RF5: S5034 RF10: S5033 RF20: S5032
RF50: S5031 RF100: S5036 RF200: S5035

COMPOUND	RF5	RF10	RF20	RF50	RF100	RF200	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2	MAX %RSD OR R^2
Dibromochloromethane	0.405	0.405	0.278	0.364	0.423	0.424	AVRG		0.38332		14.542	15.000
1,2-Dibromoethane	0.279	0.272	0.240	0.291	0.290	0.296	AVRG		0.27799		7.460	15.000
2-Hexanone	0.220	0.236	0.195	0.222	0.251	0.252	AVRG		0.22936		9.351	15.000
Chlorobenzene	1.311	1.263	1.242	1.302	1.174	1.188	AVRG		1.24652		4.562	15.000
Ethylbenzene	2.024	2.077	2.005	2.105	1.925	1.956	AVRG		2.01535		3.414	15.000
1,1,1,2-Tetrachloroethane	0.449	0.450	0.433	0.463	0.438	0.444	AVRG		0.44633		2.333	15.000
Xylenes (total)	2.229	2.252	2.252	2.368	2.157	2.140	AVRG		2.23277		3.663	15.000
m+p-Xylenes	0.765	0.753	0.768	0.797	0.715	0.711	AVRG		0.75157		4.385	15.000
o-Xylene	0.699	0.745	0.716	0.774	0.727	0.717	AVRG		0.72964		3.642	15.000
Styrene	1.195	1.250	1.207	1.320	1.262	1.276	AVRG		1.25163		3.680	15.000
Bromoform	0.218	0.211	0.196	0.236	0.248	0.241	AVRG		0.22495		8.905	15.000
trans-1,4-Dichloro-2-Butene	0.238	0.262	0.219	0.233	0.265	0.260	AVRG		0.24649		7.677	15.000
1,1,2,2-Tetrachloroethane	0.903	0.992	0.870	0.860	0.927	0.897	AVRG		0.90823		5.250	15.000
1,2,3-Trichloropropane	1.138	1.318	1.027	1.140	1.207	1.115	AVRG		1.15739		8.449	15.000
Pentachloroethane	0.871	1.040	0.869	0.874	0.793	0.794	AVRG		0.87355		10.303	15.000
1,2-Dibromo-3-Chloropropane	0.300	0.305	0.246	0.262	0.285	0.262	AVRG		0.27665		8.534	15.000
Dibromofluoromethane	0.605	0.623	0.603	0.536	0.632	0.618	AVRG		0.60286		5.752	15.000
1,2-Dichloroethane-D4	0.571	0.594	0.534	0.495	0.628	0.592	AVRG		0.56889		8.362	15.000
Toluene-D8	1.271	1.335	1.320	1.118	1.258	1.254	AVRG		1.25916		6.094	15.000
P-Bromofluorobenzene	0.481	0.538	0.497	0.433	0.493	0.498	AVRG		0.49005		6.920	15.000

Average %RSD test result.

Calculate Average %RSD: 7.295575619
Maximum Average %RSD: 15.00000000

Note: Passes Average %RSD Test.

Katahdin Analytical Services

INITIAL CALIBRATION DATA

Start Cal Date : 21-NOV-2002 07:41
End Cal Date : 21-NOV-2002 10:26
Quant Method : ISTD
Target Version : 4.12
Integrator : HP RTE
Method file : \chem\gcms-s.i\s112102.b\8260APIX.m
Cal Date : 05-Mar-2003 08:59 bgosselin

Global Auto Calibration Mode = TEST AVG. %RSD BEFORE AUTO CALIBRATION

Calibration File Names:
Level 1: \chem\gcms-s.i\s112102.b\S5034.D
Level 2: \chem\gcms-s.i\s112102.b\S5033.D
Level 3: \chem\gcms-s.i\s112102.b\S5032.D
Level 4: \chem\gcms-s.i\s112102.b\S5031.D
Level 5: \chem\gcms-s.i\s112102.b\S5036.D
Level 6: \chem\gcms-s.i\s112102.b\S5035.D

Compound	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Old Crv	New Crv	Crv Org	WtFactr	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2	Max %RSD or R^2	
1 Dichlorodifluoromethane	0.77105	0.73203	0.70188	0.74997	0.67096	0.66557	AVG	AVG	N\A	N\A		0.71524		6.00035	15.00000	O
2 Chloromethane	0.94726	1.11396	1.08059	1.08787	0.96787	0.99102	AVG	AVG	N\A	N\A		1.03143		6.87884	15.00000	O
3 Vinyl chloride	0.86676	0.82912	0.81325	0.82659	0.72759	0.72276	AVG	AVG	N\A	N\A		0.79768		7.38779	15.00000	O
4 Bromomethane	6495	11901	18206	70422	139344	292743	LNR	LNR	NO	N\A	0.07063	0.42281		0.99805	0.99000	O
5 Chloroethane	0.44551	0.48184	0.47125	0.50143	0.38952	0.40320	AVG	AVG	N\A	N\A		0.44879		9.94992	15.00000	O
6 Trichlorofluoromethane	0.81771	0.85059	0.82867	0.86670	0.78613	0.80149	AVG	AVG	N\A	N\A		0.82521		3.64484	15.00000	O
9 1,1-Dichloroethene	0.57069	0.55589	0.60680	0.59243	0.53234	0.53286	AVG	AVG	N\A	N\A		0.56517		5.43304	15.00000	O
14 Methylene Chloride	0.84921	0.76109	0.73912	0.75447	0.68320	0.67709	AVG	AVG	N\A	N\A		0.74403		8.42967	15.00000	O
17 trans-1,2-Dichloroethene	0.67204	0.65835	0.64840	0.65266	0.61350	0.61109	AVG	AVG	N\A	N\A		0.64267		3.86728	15.00000	O
26 1,1-Dichloroethane	1.26573	1.18254	1.14868	1.28810	1.14705	1.14102	AVG	AVG	N\A	N\A		1.19552		5.44441	15.00000	O
35 Chloroform	1.09868	1.11129	1.12268	1.17764	1.06608	1.08839	AVG	AVG	N\A	N\A		1.11080		3.43006	15.00000	O
39 1,1,1-Trichloroethane	0.92444	0.79812	0.77322	0.84909	0.81449	0.83449	AVG	AVG	N\A	N\A		0.83231		6.30121	15.00000	O

Katahdin Analytical Services

INITIAL CALIBRATION DATA

Start Cal Date : 21-NOV-2002 07:41
End Cal Date : 21-NOV-2002 10:26
Quant Method : ISTD
Target Version : 4.12
Integrator : HP RTE
Method file : \chem\gcms-s.i\s112102.b\8260APIX.m
Cal Date : 05-Mar-2003 08:59 bgosselin

Global Auto Calibration Mode = TEST AVG. %RSD BEFORE AUTO CALIBRATION

	Compound	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Old Crv	New Crv	Crv Org	WtFactr	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2	Max %RSD or R^2	
49	1,2-Dichloroethane	0.47575	0.45223	0.41230	0.48533	0.45513	0.47531	AVG	AVG	N\A	N\A		0.45934		5.74434	15.00000	O
36	Carbon Tetrachloride	12172	17159	18948	62662	246453	495461	QUA	QUA	NO	N\A	0.15435	2.43262	-0.21281	0.98748	0.99000	XO
42	Benzene	1.73435	1.70646	1.68350	1.77738	1.55137	1.61378	AVG	AVG	N\A	N\A		1.67781		4.91863	15.00000	O
53	1,2-Dichloropropane	0.43410	0.42267	0.42047	0.46183	0.39820	0.42071	AVG	AVG	N\A	N\A		0.42633		4.91049	15.00000	O
50	Trichloroethene	0.43701	0.41151	0.46462	0.43465	0.37373	0.38473	AVG	AVG	N\A	N\A		0.41771		8.23804	15.00000	O
52	Dibromomethane	5676	7099	13826	51311	116579	224785	LNR	LNR	NO	N\A	0.09170	0.21764		0.99861	0.99000	O
54	Bromodichloromethane	0.53945	0.48103	0.37120	0.45905	0.50110	0.52433	AVG	AVG	N\A	N\A		0.47936		12.59268	15.00000	O
55	cis-1,3-dichloropropene	17313	35225	32454	153848	363919	697286	LNR	LNR	NO	N\A	0.09355	0.67583		0.99677	0.99000	O
60	Toluene	0.99257	0.92624	0.96357	0.98247	0.89778	0.93036	AVG	AVG	N\A	N\A		0.94883		3.86360	15.00000	O
63	trans-1,3-Dichloropropene	11975	27300	32310	122603	282077	548623	LNR	LNR	NO	N\A	0.08463	0.52890		0.99790	0.99000	O
64	1,1,2-Trichloroethane	0.24686	0.24911	0.23640	0.25413	0.24564	0.25423	AVG	AVG	N\A	N\A		0.24773		2.66996	15.00000	O
65	Dibromochloromethane	0.40532	0.40494	0.27835	0.36454	0.42325	0.42353	AVG	AVG	N\A	N\A		0.38332		14.54162	15.00000	O
62	Tetrachloroethene	0.26564	0.34563	0.34850	0.35779	0.32693	0.33427	AVG	AVG	N\A	N\A		0.32979		10.08284	15.00000	O
67	1,2-Dibromoethane	0.27884	0.27181	0.23980	0.29071	0.29044	0.29632	AVG	AVG	N\A	N\A		0.27799		7.45955	15.00000	O
70	Chlorobenzene	1.31068	1.26304	1.24233	1.30150	1.17363	1.18797	AVG	AVG	N\A	N\A		1.24652		4.56238	15.00000	O
72	1,1,1,2-Tetrachloroethane	0.44909	0.45058	0.43343	0.46288	0.43789	0.44412	AVG	AVG	N\A	N\A		0.44633		2.33267	15.00000	O
71	Ethylbenzene	2.02453	2.07667	2.00515	2.10494	1.92516	1.95568	AVG	AVG	N\A	N\A		2.01535		3.41403	15.00000	O
77	Bromoform	0.21838	0.21066	0.19572	0.23594	0.24769	0.24128	AVG	AVG	N\A	N\A		0.22495		8.90458	15.00000	O
76	Styrene	1.19486	1.24989	1.20699	1.32016	1.26207	1.27581	AVG	AVG	N\A	N\A		1.25163		3.68009	15.00000	O
85	1,1,2,2-Tetrachloroethane	0.90278	0.99251	0.87050	0.85984	0.92675	0.89703	AVG	AVG	N\A	N\A		0.90823		5.24966	15.00000	O

Katahdin Analytical Services

INITIAL CALIBRATION DATA

Start Cal Date : 21-NOV-2002 07:41
End Cal Date : 21-NOV-2002 10:26
Quant Method : ISTD
Target Version : 4.12
Integrator : HP RTE
Method file : \chem\gcms-s.i\s112102.b\8260APIX.m
Cal Date : 05-Mar-2003 08:59 bgosselin

Global Auto Calibration Mode = TEST AVG. %RSD BEFORE AUTO CALIBRATION

	Compound	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Old Crv	New Crv	Crv Org	WtFactr	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2	Max %RSD or R^2	
88	1,2,3-Trichloropropane	1.13849	1.31783	1.02660	1.13977	1.20705	1.11463	AVG	AVG	N\A	N\A		1.15739		8.44881	15.00000	O
100	1,2-Dibromo-3-Chloropropane	0.29993	0.30472	0.24562	0.26185	0.28530	0.26248	AVG	AVG	N\A	N\A		0.27665		8.53438	15.00000	O
15	Acetone	4757	11273	17628	67711	123215	225048	LNR	LNR	NO	N\A	-0.11464	0.06547		0.99428	0.99000	O
41	2-Butanone	0.05175	0.05189	0.04168	0.06013	0.05995	0.06131	AVG	AVG	N\A	N\A		0.05445		13.89864	15.00000	O
61	4-methyl-2-pentanone	0.20934	0.21952	0.19078	0.25729	0.23104	0.23571	AVG	AVG	N\A	N\A		0.22395		10.24785	15.00000	O
68	2-Hexanone	0.22059	0.23580	0.19521	0.22199	0.25060	0.25194	AVG	AVG	N\A	N\A		0.22936		9.35098	15.00000	O
29	Vinyl Acetate	13235	19051	39463	153208	327965	686731	LNR	LNR	NO	N\A	0.12656	0.66355		0.99682	0.99000	O
10	Carbon Disulfide	2.09134	2.11657	2.05704	2.22002	1.94442	1.93796	AVG	AVG	N\A	N\A		2.06122		5.22712	15.00000	O
20	Acetonitrile	1156	3222	6099	22414	31271	60357	QUA	QUA	NO	N\A	0.46135	80.79262	100	0.98827	0.99000	XO
13	Acrolein	0.03492	0.03287	0.03003	0.03904	0.03248	0.03105	AVG	AVG	N\A	N\A		0.03340		9.66721	15.00000	O
27	Acrylonitrile	0.11486	0.10693	0.10681	0.14767	0.12365	0.12498	AVG	AVG	N\A	N\A		0.12081		12.66913	15.00000	O
23	Chloroprene	0.90509	0.90825	0.71417	0.75498	0.89350	0.91242	AVG	AVG	N\A	N\A		0.84807		10.50355	15.00000	O
18	Allyl Chloride	0.77188	0.70705	0.71389	0.98146	0.70642	0.83118	AVG	AVG	N\A	N\A		0.78531		13.73924	15.00000	O
57	1,4-Dioxane	3109	4810	8551	23626	31707	23732	QUA	QUA	NO	N\A	-16.32090	1208	-5792	0.57008	0.99000	XO
25	Propionitrile	0.04169	0.04667	0.04067	0.05728	0.04629	0.04528	AVG	AVG	N\A	N\A		0.04631		12.75833	15.00000	O
45	Ethyl Methacrylate	0.32104	0.36424	0.32862	0.42473	0.39139	0.42118	AVG	AVG	N\A	N\A		0.37520		11.95072	15.00000	O
12	Iodomethane	9410	8087	9670	45467	195997	401181	QUA	QUA	NO	N\A	0.21395	1.80249	-0.07044	0.98465	0.99000	XO
16	Isobutyl Alcohol	8602	16116	24799	89645	195632	379141	LNR	LNR	NO	N\A	1.06246	0.02759		0.99885	0.99000	O
24	Methacrylonitrile	0.25358	0.24954	0.22351	0.29176	0.25670	0.24908	AVG	AVG	N\A	N\A		0.25403		8.63750	15.00000	O
32	Methyl Methacrylate	0.19559	0.21722	0.19360	0.23946	0.22690	0.23533	AVG	AVG	N\A	N\A		0.21801		9.03093	15.00000	O

Katahdin Analytical Services

INITIAL CALIBRATION DATA

Start Cal Date : 21-NOV-2002 07:41
End Cal Date : 21-NOV-2002 10:26
Quant Method : ISTD
Target Version : 4.12
Integrator : HP RTE
Method file : \chem\gcms-s.i\s112102.b\8260APIX.m
Cal Date : 05-Mar-2003 08:59 bgosselin

Global Auto Calibration Mode = TEST AVG. %RSD BEFORE AUTO CALIBRATION

	Compound	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Old Crv	New Crv	Crv Org	WtFactr	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2	Max %RSD or R^2	
	91 Pentachloroethane	0.87079	1.03993	0.86884	0.87456	0.79267	0.79451	AVG	AVG	N\A	N\A		0.87355		10.30307	15.00000	O
	81 trans-1,4-Dichloro-2-Butene	0.23843	0.26234	0.21918	0.23314	0.26529	0.26053	AVG	AVG	N\A	N\A		0.24649		7.67686	15.00000	O
M	73 Xylenes (total)	2.22884	2.25175	2.25203	2.36777	2.15674	2.13951	AVG	AVG	N\A	N\A		2.23277		3.66329	15.00000	O
	74 m+p-Xylenes	0.76494	0.75332	0.76788	0.79675	0.71506	0.71145	AVG	AVG	N\A	N\A		0.75157		4.38542	15.00000	O
	75 o-Xylene	0.69896	0.74510	0.71626	0.77427	0.72662	0.71660	AVG	AVG	N\A	N\A		0.72964		3.64199	15.00000	O
	59 2-Chloroethylvinylether	389	835	1120	5366	10850	19847	LNR	LNR	NO	N\A	0.05245	0.01929		0.99747	0.99000	O
	30 cis-1,2-Dichloroethene	0.72319	0.68347	0.70694	0.72300	0.65550	0.66840	AVG	AVG	N\A	N\A		0.69342		4.13314	15.00000	O
M	31 1,2-Dichloroethylene (total	1.39523	1.34181	1.35534	1.37566	1.26900	1.27949	AVG	AVG	N\A	N\A		1.33609		3.84123	15.00000	O
$	38 Dibromofluoromethane	0.60477	0.62294	0.60313	0.53579	0.63243	0.61812	AVG	AVG	N\A	N\A		0.60286		5.75185	15.00000	O
$	46 1,2-Dichloroethane-D4	0.57075	0.59434	0.53385	0.49497	0.62760	0.59182	AVG	AVG	N\A	N\A		0.56889		8.36201	15.00000	O
$	58 Toluene-D8	1.27056	1.33509	1.31967	1.11826	1.25762	1.25374	AVG	AVG	N\A	N\A		1.25916		6.09436	15.00000	O
$	79 P-Bromofluorobenzene	0.48146	0.53758	0.49734	0.43274	0.49268	0.49854	AVG	AVG	N\A	N\A		0.49005		6.91973	15.00000	O

Katahdin Analytical Services

INITIAL CALIBRATION DATA

Start Cal Date : 21-NOV-2002 07:41
End Cal Date : 21-NOV-2002 10:26
Quant Method : ISTD
Target Version : 4.12
Integrator : HP RTE
Method file : \chem\gcms-s.i\s112102.b\8260APIX.m
Cal Date : 05-Mar-2003 08:59 bgosselin

Global Auto Calibration Mode = TEST AVG. %RSD BEFORE AUTO CALIBRATION

Average %RSD Results.	
Calculated Average %RSD =	7.29558
Maximun Average %RSD =	15.00000
* Passed Average %RSD Test.	

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

Note: W = Failed %RSD Value.
X = Failed R^2 Value.
Y = Failed Mininum RF.
O = Kept original curve.
D = Curve replaced with the default curve option.

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

	CLIENT SAMPLE ID	LAB SAMPLE ID	SMC1 DBF#	SMC2 DCA#	SMC3 TOL#	SMC4 BFB#	TOT OUT
01	WG1691-LCS	WG1691-2	87	96	89	92	0
02	WG1691-BLANK	WG1691-1	83	94	87	90	0
03	TB-013103	WT0233-8	88	91	91	87	0
04	TB-020303	WT0246-14	90	103	94	98	0
05	S1MW-7-0103	WT0233-6	92	105	94	97	0
06	0103-DUP-01	WT0233-7	90	111	93	96	0
07	S9MW-5-0103	WT0246-1	88	103	92	96	0
08	S9MW-12-0103	WT0246-2	87	102	93	100	0
09	S9MW-14-0103	WT0246-3	84	101	92	96	0
10	S9MW-15-0103	WT0246-4	90	103	92	97	0
11	S9MW-24-0103	WT0246-6	87	104	91	95	0
12	S9MW-25-0103	WT0246-7	86	95	92	90	0
13	0103-DUP-06	WT0246-8	84	104	90	92	0
14	S9MW-22-0103	WT0246-13	91	105	90	95	0
15	WG1695-LCS	WG1695-2	83	91	90	96	0
16	WG1695-BLANK	WG1695-1	80	96	91	97	0
17	S9MW-21-0103	WT0246-5	78	91	88	90	0
18	S1MW-5-0103	WT0246-9	90	104	91	94	0
19	S9MW-14-0103-DL	WT0246-3	83	93	88	96	0
20	S9MW-15-0103-DL	WT0246-4	91	102	90	94	0
21	S9MW-24-0103-DL	WT0246-6	89	107	91	96	0
22	0103-DUP-06-DL	WT0246-8	89	103	90	100	0
23	S9MW-22-0103-DL	WT0246-13	87	104	93	100	0
24	S9MW-5-0103MS	WG1695-3	87	96	90	98	0
25	S9MW-5-0103MSD	WG1695-4	87	96	92	96	0
26							
27							
28							

		QC LIMITS
SMC1 (DBF)	= Dibromofluoromethane	(75-129)
SMC2 (DCA)	= 1,2-Dichloroethane-D4	(65-135)
SMC3 (TOL)	= Toluene-D8	(82-120)
SMC4 (BFB)	= P-Bromofluorobenzene	(69-125)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Lab File ID: SB714 BFB Injection Date: 02/07/03

Instrument ID: GCMS-S BFB Injection Time: 1100

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.9
75	30.0 - 60.0% of mass 95	46.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	75.0
175	4.0 - 9.0% of mass 174	6.4 (8.5)1
176	95.0 - 101.0% of mass 174	72.9 (97.1)1
177	5.0 - 9.0% of mass 176	4.9 (6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD050S07A	S5814	02/07/03	1131
02	WG1691-LCS	WG1691-2	S5815	02/07/03	1229
03	WG1691-BLANK	WG1691-1	S5816	02/07/03	1322
04	TB-013103	WT0233-8	S5817	02/07/03	1406
05	TB-020303	WT0246-14	S5818	02/07/03	1439
06	S1MW-7-0103	WT0233-6	S5819	02/07/03	1512
07	0103-DUP-01	WT0233-7	S5820	02/07/03	1545
08	S9MW-5-0103	WT0246-1	S5821	02/07/03	1618
09	S9MW-12-0103	WT0246-2	S5822	02/07/03	1652
10	S9MW-14-0103	WT0246-3	S5823	02/07/03	1725
11	S9MW-15-0103	WT0246-4	S5824	02/07/03	1758
12	S9MW-24-0103	WT0246-6	S5826	02/07/03	1905
13	S9MW-25-0103	WT0246-7	S5827	02/07/03	1937
14	0103-DUP-06	WT0246-8	S5828	02/07/03	2011
15	S9MW-22-0103	WT0246-13	S5830	02/07/03	2117
16					
17					
18					
19					
20					
21					
22					

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GCMS-S Calibration Date: 02/07/03 Time: 1131

Lab File ID: S5814 Init. Calib. Date(s): 11/21/02 11/21/02

Init. Calib. Times: 0741 1026

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Dichlorodifluoromethane	0.7150000	0.7515800	0.7515800	0.01	5.12		AVRG
Chloromethane	1.0320000	0.8456400	0.8456400	0.1	-18.06		AVRG
Vinyl chloride	0.7980000	0.7671100	0.7671100	0.01	-3.87	20.00	AVRG
Bromomethane	40.330000	50.000000	0.3111800	0.01	-19.34		LINR
Chloroethane	0.4490000	0.4354400	0.4354400	0.01	-3.02		AVRG
Trichlorofluoromethane	0.8250000	0.9010000	0.9010000	0.01	9.21		AVRG
1,1-Dichloroethene	0.5650000	0.5509000	0.5509000	0.1	-2.50	20.00	AVRG
Carbon Disulfide	2.0610000	1.9349000	1.9349000	0.01	-6.12		AVRG
Iodomethane	49.612000	50.000000	0.4393300	0.01	-0.78		2RDR
Acrolein	3.3e-002	6.86e-002	6.86e-002	0.01	107.88		AVRG
Methylene Chloride	0.7440000	0.6806300	0.6806300	0.01	-8.52		AVRG
Acetone	154.45000	250.00000	4.2e-002	0.01	-38.22		LINR
Isobutyl Alcohol	1445.7000	1000.0000	3.84e-002	0.01	44.57		LINR
trans-1,2-Dichloroethene	0.6430000	0.6276100	0.6276100	0.01	-2.39		AVRG
Allyl Chloride	0.7850000	0.7544400	0.7544400	0.01	-3.89		AVRG
Acetonitrile	610.44000	500.00000	1.26e-002	0.01	22.09		2RDR
Chloroprene	0.8480000	0.7936900	0.7936900	0.01	-6.40		AVRG
Methacrylonitrile	0.2540000	0.3201500	0.3201500	0.01	26.04		AVRG
Propionitrile	4.6e-002	5.81e-002	5.81e-002	0.01	26.30		AVRG
1,1-Dichloroethane	1.1960000	1.1668000	1.1668000	0.01	-2.44		AVRG
Acrylonitrile	0.1210000	0.1313800	0.1313800	0.01	8.58		AVRG
Vinyl Acetate	67.262000	50.000000	0.8086500	0.01	34.52		LINR
cis-1,2-Dichloroethene	0.6930000	0.6594600	0.6594600	0.01	-4.84		AVRG
1,2-Dichloroethylene (total)	1.3360000	1.2871000	1.2871000	0.01	-3.66		AVRG
Methyl Methacrylate	0.2180000	0.3012200	0.3012200	0.01	38.17		AVRG
Chloroform	1.1110000	1.1255000	1.1255000	0.01	1.30	20.00	AVRG
Carbon Tetrachloride	62.500000	50.000000	0.4697000	0.01	25.00		2RDR
1,1,1-Trichloroethane	0.8320000	0.9129400	0.9129400	0.01	9.73		AVRG
2-Butanone	5.4e-002	5.46e-002	5.46e-002	0.01	1.11		AVRG

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GCMS-S Calibration Date: 02/07/03 Time: 1131

Lab File ID: S5814 Init. Calib. Date(s): 11/21/02 11/21/02

Init. Calib. Times: 0741 1026

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Benzene	1.6780000	1.6156000	1.6156000	0.01	-3.72		AVRG	
Ethyl Methacrylate	0.3750000	0.4250200	0.4250200	0.01	13.34		AVRG	
1,2-Dichloroethane	0.4590000	0.5410600	0.5410600	0.01	17.88		AVRG	
Trichloroethene	0.4180000	0.4200700	0.4200700	0.01	0.50		AVRG	
Dibromomethane	58.284000	50.000000	0.2337500	0.01	16.57		LINR	
1,2-Dichloropropane	0.4260000	0.4171400	0.4171400	0.01	-2.08	20.00	AVRG	
Bromodichloromethane	0.4790000	0.5434200	0.5434200	0.01	13.45		AVRG	
cis-1,3-dichloropropene	54.948000	50.000000	0.6794900	0.01	9.90		LINR	
1,4-Dioxane	1556.2000	1000.0000	2.62e-003	0.01	55.62		2RDR	<-
2-Chloroethylvinylether	20.523000	50.000000	6.9e-003	0.01	-58.95		LINR	<-
Toluene	0.9490000	0.9743100	0.9743100	0.01	2.67	20.00	AVRG	
4-methyl-2-pentanone	0.2240000	0.3252200	0.3252200	0.01	45.19		AVRG	
Tetrachloroethene	0.3300000	0.3657700	0.3657700	0.01	10.84		AVRG	
trans-1,3-Dichloropropene	55.066000	50.000000	0.5377200	0.01	10.13		LINR	
1,1,2-Trichloroethane	0.2480000	0.2625600	0.2625600	0.01	5.87		AVRG	
Dibromochloromethane	0.3830000	0.4315900	0.4315900	0.01	12.69		AVRG	
1,2-Dibromoethane	0.2780000	0.3080900	0.3080900	0.01	10.82		AVRG	
2-Hexanone	0.2290000	0.2697500	0.2697500	0.01	17.80		AVRG	
Chlorobenzene	1.2470000	1.2756000	1.2756000	0.3	2.29		AVRG	
Ethylbenzene	2.0150000	2.0911000	2.0911000	0.01	3.78	20.00	AVRG	
1,1,1,2-Tetrachloroethane	0.4460000	0.4519600	0.4519600	0.01	1.34		AVRG	
Xylenes (total)	2.2330000	2.2612000	2.2612000	0.01	1.26		AVRG	
m+p-Xylenes	0.7520000	0.7592600	0.7592600	0.01	0.96		AVRG	
o-Xylene	0.7300000	0.7427200	0.7427200	0.01	1.74		AVRG	
Styrene	1.2520000	1.3342000	1.3342000	0.01	6.56		AVRG	
Bromoform	0.2250000	0.2661900	0.2661900	0.1	18.31		AVRG	
trans-1,4-Dichloro-2-Butene	0.2460000	0.2628200	0.2628200	0.01	6.84		AVRG	
1,1,2,2-Tetrachloroethane	0.9080000	0.9489200	0.9489200	0.3	4.51		AVRG	
1,2,3-Trichloropropane	1.1580000	1.2045000	1.2045000	0.01	4.02		AVRG	

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GCMS-S Calibration Date: 02/07/03 Time: 1131

Lab File ID: S5814 Init. Calib. Date(s): 11/21/02 11/21/02

Init. Calib. Times: 0741 1026

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Pentachloroethane	0.8740000	0.8027300	0.8027300	0.01	-8.15		AVRG
1,2-Dibromo-3-Chloropropane	0.2770000	0.2847900	0.2847900	0.01	2.81		AVRG
Dibromofluoromethane	0.6030000	0.5011800	0.5011800	0.01	-16.89		AVRG
1,2-Dichloroethane-D4	0.5690000	0.5512800	0.5512800	0.01	-3.11		AVRG
Toluene-D8	1.2590000	1.1264000	1.1264000	0.01	-10.53		AVRG
P-Bromofluorobenzene	0.4900000	0.4645100	0.4645100	0.01	-5.20		AVRG

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: NAF KEY WEST CTO233
PO No:
Sample Date:
Received Date:
Extraction Date: 02/07/03
Analysis Date: 02/07/03
Report Date: 03/05/2003
Matrix: WATER
% Solids: NA

Lab ID: WG1691-1
Client ID: WG1691-BLANK
SDG: CTO233-4
Extracted by: JSS
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG1691
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	5	1.0	5	5	0.2
74-87-3	Chloromethane	U	5	1.0	5	5	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	5	1.0	5	5	0.9
75-00-3	Chloroethane	U	5	1.0	5	5	0.3
75-69-4	Trichlorofluoromethane	U	5	1.0	5	5	0.2
75-35-4	1,1-Dichloroethene	U	5	1.0	5	5	0.3
75-15-0	Carbon Disulfide	U	5	1.0	5	5	0.2
74-88-4	Iodomethane	U	10	1.0	10	10	0.2
107-02-8	Acrolein	U	50	1.0	50	50	3
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.3
67-64-1	Acetone	U	10	1.0	10	10	3
78-83-1	Isobutyl Alcohol	U	100	1.0	100	100	78
156-60-5	trans-1,2-Dichloroethene	U	5	1.0	5	5	0.7
107-05-1	Allyl Chloride	U	10	1.0	10	10	1
75-05-8	Acetonitrile	U	50	1.0	50	50	6
126-99-8	Chloroprene	U	10	1.0	10	10	2
126-98-7	Methacrylonitrile	U	50	1.0	50	50	11
107-12-0	Propionitrile	U	50	1.0	50	50	16
75-34-3	1,1-Dichloroethane	U	5	1.0	5	5	0.1
107-13-1	Acrylonitrile	U	10	1.0	10	10	0.8
108-05-4	Vinyl Acetate	U	5	1.0	5	5	0.3
156-59-2	cis-1,2-Dichloroethene	U	5	1.0	5	5	0.5
540-59-0	1,2-Dichloroethylene (total)	U	5	1.0	5	5	1
80-62-6	Methyl Methacrylate	U	10	1.0	10	10	1
67-66-3	Chloroform	U	5	1.0	5	5	0.2
56-23-5	Carbon Tetrachloride	U	5	1.0	5	5	0.3
71-55-6	1,1,1-Trichloroethane	U	5	1.0	5	5	0.7
78-93-3	2-Butanone	U	10	1.0	10	10	2
71-43-2	Benzene	U	5	1.0	5	5	0.1
97-63-2	Ethyl Methacrylate	U	10	1.0	10	10	0.9
107-06-2	1,2-Dichloroethane	U	5	1.0	5	5	0.3
79-01-6	Trichloroethene	U	5	1.0	5	5	0.6
74-95-3	Dibromomethane	U	5	1.0	5	5	0.4
78-87-5	1,2-Dichloropropane	U	5	1.0	5	5	0.2
75-27-4	Bromodichloromethane	U	5	1.0	5	5	0.2
10061-01-5	cis-1,3-dichloropropene	U	5	1.0	5	5	0.4
123-91-1	1,4-Dioxane	U	100	1.0	100	100	43
110-75-8	2-Chloroethylvinylether	U	5	1.0	5	5	0.5
108-88-3	Toluene	U	5	1.0	5	5	0.2
108-10-1	4-methyl-2-pentanone	U	10	1.0	10	10	2
127-18-4	Tetrachloroethene	U	5	1.0	5	5	0.4
10061-02-6	trans-1,3-Dichloropropene	U	5	1.0	5	5	0.4

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: NAF KEY WEST CTO233
PO No:
Sample Date:
Received Date:
Extraction Date: 02/07/03
Analysis Date: 02/07/03
Report Date: 03/05/2003
Matrix: WATER
% Solids: NA

Lab ID: WG1691-1
Client ID: WG1691-BLANK
SDG: CTO233-4
Extracted by: JSS
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG1691
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
79-00-5	1,1,2-Trichloroethane	U	5	1.0	5	5	0.3
124-48-1	Dibromochloromethane	U	5	1.0	5	5	0.3
106-93-4	1,2-Dibromoethane	U	5	1.0	5	5	0.2
591-78-6	2-Hexanone	U	10	1.0	10	10	2
108-90-7	Chlorobenzene	U	5	1.0	5	5	0.2
100-41-4	Ethylbenzene	U	5	1.0	5	5	0.1
630-20-6	1,1,1,2-Tetrachloroethane	U	5	1.0	5	5	0.2
1330-20-7	Xylenes (total)	U	5	1.0	5	5	0.2
	m+p-Xylenes	U	5	1.0	5	5	0.2
95-47-6	o-Xylene	U	5	1.0	5	5	0.2
100-42-5	Styrene	U	5	1.0	5	5	0.3
75-25-2	Bromoform	U	5	1.0	5	5	0.4
110-57-6	trans-1,4-Dichloro-2-Butene	U	10	1.0	10	10	0.5
79-34-5	1,1,2,2-Tetrachloroethane	U	5	1.0	5	5	0.4
96-18-4	1,2,3-Trichloropropane	U	5	1.0	5	5	0.9
76-01-1	Pentachloroethane	U	10	1.0	10	10	2
96-12-8	1,2-Dibromo-3-Chloropropane	U	5	1.0	5	5	0.6
1868-53-7	Dibromofluoromethane		83%				
17060-07-0	1,2-Dichloroethane-D4		94%				
2037-26-5	Toluene-D8		87%				
460-00-4	P-Bromofluorobenzene		90%				

Katahdin Analytical Services

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: WG1691-1
Operator : JSS
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 07-FEB-2003 13:22

Client SDG: SDGa01256
Client Smp ID: WG1691-BLANK
Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: NAF KEY WEST CTO233
PO No:
Sample Date:
Received Date:
Extraction Date: 02/07/03
Analysis Date: 02/07/03
Report Date: 03/05/2003
Matrix: WATER

Lab ID: WG1691-2
Client ID: WG1691-LCS
SDG: CTO233-4
Extracted by: JSS
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG1691
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
Dichlorodifluoromethane	50	NA	48	96	4-217
Chloromethane	50	NA	36	72	40-163
Vinyl chloride	50	NA	47	95	55-151
Bromomethane	50	NA	40	81	24-217
Chloroethane	50	NA	51	103	69-134
Trichlorofluoromethane	50	NA	54	109	71-147
1,1-Dichloroethene	50	NA	46	92	78-136
Carbon Disulfide	50	NA	49	98	70-136
Iodomethane	50	NA	48	96	60-140
Acrolein	250	NA	496	198	0-199
Methylene Chloride	50	NA	42	84	52-115
Acetone	50	NA	39	78	0-158
Isobutyl Alcohol	1000	NA	1400	140	60-140
trans-1,2-Dichloroethene	50	NA	47	95	84-131
Allyl Chloride	50	NA	46	91	60-140
Acetonitrile	500	NA	580	116	53-141
Chloroprene	50	NA	48	96	60-140
Methacrylonitrile	500	NA	619	124	60-140
Propionitrile	500	NA	599	120	60-140
1,1-Dichloroethane	50	NA	46	93	81-134
Acrylonitrile	250	NA	271	108	29-172
Vinyl Acetate	50	NA	55	109	68-174
cis-1,2-Dichloroethene	50	NA	45	90	84-123
1,2-Dichloroethylene (total)	100	NA	93	93	84-131
Methyl Methacrylate	50	NA	66	132	60-140
Chloroform	50	NA	48	97	80-130
Carbon Tetrachloride	50	NA	60	120	74-137
1,1,1-Trichloroethane	50	NA	52	104	76-138
2-Butanone	50	NA	72	144	49-154
Benzene	50	NA	46	91	88-120
Ethyl Methacrylate	50	NA	54	107	60-140
1,2-Dichloroethane	50	NA	54	109	78-138
Trichloroethene	50	NA	41	82	80-125
Dibromomethane	50	NA	53	105	88-130
1,2-Dichloropropane	50	NA	45	89	80-122
Bromodichloromethane	50	NA	50	100	83-133
cis-1,3-dichloropropene	50	NA	51	101	81-138
1,4-Dioxane	1000	NA	1380	138	60-140
2-Chloroethylvinylether	50	NA	64	127	50-211
Toluene	50	NA	48	96	88-121
4-methyl-2-pentanone	50	NA	64	128	72-140
Tetrachloroethene	50	NA	53	107	77-129
trans-1,3-Dichloropropene	50	NA	54	108	81-149
1,1,2-Trichloroethane	50	NA	47	93	82-126
Dibromochloromethane	50	NA	52	105	80-133

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: NAF KEY WEST CTO233
PO No:
Sample Date:
Received Date:
Extraction Date: 02/07/03
Analysis Date: 02/07/03
Report Date: 03/05/2003
Matrix: WATER

Lab ID: WG1691-2
Client ID: WG1691-LCS
SDG: CTO233-4
Extracted by: JSS
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG1691
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
1,2-Dibromoethane	50	NA	51	102	88-127
2-Hexanone	50	NA	58	116	45-146
Chlorobenzene	50	NA	48	96	84-123
Ethylbenzene	50	NA	50	100	84-131
1,1,1,2-Tetrachloroethane	50	NA	47	94	83-130
Xylenes (total)	150	NA	147	98	88-123
m+p-Xylenes	100	NA	97	97	88-122
o-Xylene	50	NA	50	100	90-123
Styrene	50	NA	49	99	87-137
Bromoform	50	NA	52	103	77-138
trans-1,4-Dichloro-2-Butene	50	NA	52	103	60-140
1,1,2,2-Tetrachloroethane	50	NA	49	98	81-131
1,2,3-Trichloropropane	50	NA	46	93	76-132
Pentachloroethane	50	NA	46	92	60-140
1,2-Dibromo-3-Chloropropane	50	NA	50	99	61-136

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Lab File ID (Standard): S5814 Date Analyzed: 02/07/03

Instrument ID: GCMS-S Time Analyzed: 1131

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

		IS1(PFB) AREA #	IS1(PFB) RT #	IS2(DFB) AREA #	IS2(DFB) RT #	IS3(CBZ) AREA #	IS3(CBZ) RT #
12 HOUR STD		150107	9.40	227672	10.06	183840	13.21
UPPER LIMIT		300214	9.90	455344	10.56	367680	13.71
LOWER LIMIT		75054	8.90	113836	9.56	91920	12.71
	CLIENT SAMPLE ID	LAB SAMPLE ID					
01	WG1691-LCS	WG1691-2	146137	9.41	225993	10.06	180148	13.20
02	WG1691-BLANK	WG1691-1	149012	9.41	226049	10.07	173727	13.20
03	TB-013103	WT0233-8	145116	9.41	223051	10.07	172058	13.21
04	TB-020303	WT0246-14	134865	9.41	205141	10.07	164393	13.21
05	S1MW-7-0103	WT0233-6	138662	9.41	210955	10.07	162580	13.21
06	0103-DUP-01	WT0233-7	133311	9.41	205122	10.07	158360	13.21
07	S9MW-5-0103	WT0246-1	131520	9.41	200698	10.07	157154	13.21
08	S9MW-12-0103	WT0246-2	135137	9.41	202419	10.07	160963	13.21
09	S9MW-14-0103	WT0246-3	134570	9.41	201472	10.07	161687	13.21
10	S9MW-15-0103	WT0246-4	132811	9.41	202115	10.07	161261	13.21
11	S9MW-24-0103	WT0246-6	134487	9.41	206737	10.07	160286	13.21
12	S9MW-25-0103	WT0246-7	133658	9.42	199286	10.07	158029	13.21
13	0103-DUP-06	WT0246-8	133107	9.41	204799	10.07	155766	13.22
14	S9MW-22-0103	WT0246-13	131088	9.41	197284	10.07	156603	13.21
15								
16								
17								
18								
19								
20								

IS1 (PFB) = Pentafluorobenzene
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-D5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Lab File ID (Standard): S5814 Date Analyzed: 02/07/03

Instrument ID: GCMS-S Time Analyzed: 1131

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

		IS4 (DCB) AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		81604	14.86				
UPPER LIMIT		163208	15.36				
LOWER LIMIT		40802	14.36				
	CLIENT SAMPLE ID	LAB SAMPLE ID					
01	WG1691-LCS	WG1691-2	77462	14.86			
02	WG1691-BLANK	WG1691-1	72536	14.86			
03	TB-013103	WT0233-8	66406	14.86			
04	TB-020303	WT0246-14	64573	14.87			
05	S1MW-7-0103	WT0233-6	64594	14.86			
06	0103-DUP-01	WT0233-7	65135	14.87			
07	S9MW-5-0103	WT0246-1	62536	14.86			
08	S9MW-12-0103	WT0246-2	65568	14.86			
09	S9MW-14-0103	WT0246-3	66653	14.86			
10	S9MW-15-0103	WT0246-4	64630	14.86			
11	S9MW-24-0103	WT0246-6	64128	14.86			
12	S9MW-25-0103	WT0246-7	59001	14.87			
13	0103-DUP-06	WT0246-8	62651	14.86			
14	S9MW-22-0103	WT0246-13	65652	14.86			
15							
16							
17							
18							
19							
20							

IS4 (DCB) = 1,4-Dichlorobenzene-D4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Lab File ID: SB715 BFB Injection Date: 02/10/03

Instrument ID: GCMS-S BFB Injection Time: 0916

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.2
75	30.0 - 60.0% of mass 95	47.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	8.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	108.6
175	4.0 - 9.0% of mass 174	7.4 (6.8)1
176	95.0 - 101.0% of mass 174	106.9 (98.4)1
177	5.0 - 9.0% of mass 176	7.8 (7.3)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD050S10C	S5833	02/10/03	1225
02	WG1695-LCS	WG1695-2	S5834	02/10/03	1309
03	WG1695-BLANK	WG1695-1	S5835	02/10/03	1355
04	S9MW-21-0103	WT0246-5	S5836	02/10/03	1442
05	S1MW-5-0103	WT0246-9	S5837	02/10/03	1515
06	S9MW-14-0103-DL	WT0246-3	S5838	02/10/03	1548
07	S9MW-15-0103-DL	WT0246-4	S5839	02/10/03	1621
08	S9MW-24-0103-DL	WT0246-6	S5840	02/10/03	1719
09	0103-DUP-06-DL	WT0246-8	S5841	02/10/03	1752
10	S9MW-22-0103-DL	WT0246-13	S5842	02/10/03	1826
11	S9MW-5-0103MS	WG1695-3	S5843	02/10/03	1859
12	S9MW-5-0103MSD	WG1695-4	S5844	02/10/03	1932
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

Spada, Bernie

From: Andrea Colby [acolby@katahdinlab.com]
Sent: Wednesday, March 26, 2003 8:56 AM
To: Spada, Bernie
Subject: Re: Key West CTO-233 SDG-2334

Bernie,
You are correct, here is the revised CCAL.
Thanks,
Andrea

-----Original Message-----
From: Spada, Bernie <SpadaB@ttnus.com>
To: 'Andrea Colby' <acolby@katahdinlab.com>
Date: Wednesday, March 26, 2003 7:56 AM
Subject: RE: Key West CTO-233 SDG-2334

Andrea,

Thank you for the resubmittal. I did notice something odd however. Shouldn't the CAL RRF 50 change? It's still the same value as the initial submittal (0.1337). It should be much lower now. Please let me know if this is correct and re-submit if so.

Thank you.

Bernie

-----Original Message-----
From: Andrea Colby [mailto:acolby@katahdinlab.com]
Sent: Tuesday, March 25, 2003 3:32 PM
To: Spada, Bernie
Subject: Re: Key West CTO-233 SDG-2334

Bernie,
Here is revised CCAL for 2-CEVE. Samples did not have any hits for this compound. Let me know if you need us to send a revised hardcopy.
Thanks,
Andrea

-----Original Message-----
From: Spada, Bernie <SpadaB@ttnus.com>
To: 'Andrea Colby' <acolby@katahdinlab.com>
Date: Tuesday, March 25, 2003 7:43 AM
Subject: Key West CTO-233 SDG-2334

Andrea,

Could you do me a favor and have the laboratory check the VOC CCAL from February 10 at 12:25 for 2-chloroethylvinyl ether? It appears that the same peak was used for toluene. I don't have any spectra to verify the compound. If the incorrect peak was used could you please revise the calibration for 2-CEVE? Thank you.

Bernard F Spada III
Bernard F Spada III

Environmental Scientist
TETRA TECH NUS, Inc.
Foster Plaza 7
661 Andersen Drive
Pittsburgh, PA 15220-2745
Telephone: (412) 921-8729
FAX: (412) 921-4040
spadab@ttnus.com
http://www.ttnus.com
http://www.tetratech.com

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: 'KATAHDIN ANALYTICAL SERVICE Lab Code: KAS

Project: 101-16 SDG No.: CTO233-4

Instrument ID: GCMS-S Calibration Date: 02/10/03 Time: 1225

Lab File ID: S5833 Init. Calib. Date(s): 11/21/02 11/21/02

Init. Calib. Times: 0741 1026

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Dichlorodifluoromethane	0.7150000	0.6386300	0.6386300	0.01	-10.68		AVRG
Chloromethane	1.0320000	0.9336200	0.9336200	0.1	-9.53		AVRG
Vinyl chloride	0.7980000	0.7338700	0.7338700	0.01	-8.04	20.00	AVRG
Bromomethane	51.671000	50.000000	0.4070800	0.01	3.34		LINR
Chloroethane	0.4490000	0.4514000	0.4514000	0.01	0.53		AVRG
Trichlorofluoromethane	0.8250000	0.7753500	0.7753500	0.01	-6.02		AVRG
1,1-Dichloroethene	0.5650000	0.5341000	0.5341000	0.1	-5.47	20.00	AVRG
Carbon Disulfide	2.0610000	1.8596000	1.8596000	0.01	-9.77		AVRG
Iodomethane	66.979000	50.000000	0.6405100	0.01	33.96		2RDR
Acrolein	3.3e-002	6.01e-002	6.01e-002	0.01	82.12		AVRG
Methylene Chloride	0.7440000	0.7311400	0.7311400	0.01	-1.73		AVRG
Acetone	330.86000	250.00000	8.82e-002	0.01	32.34		LINR
Isobutyl Alcohol	1452.1000	1000.0000	3.86e-002	0.01	45.21		LINR
trans-1,2-Dichloroethene	0.6430000	0.6181600	0.6181600	0.01	-3.86		AVRG
Allyl Chloride	0.7850000	0.7327600	0.7327600	0.01	-6.65		AVRG
Acetonitrile	520.39000	500.00000	1.09e-002	0.01	4.08		2RDR
Chloroprene	0.8480000	0.7753200	0.7753200	0.01	-8.57		AVRG
Methacrylonitrile	0.2540000	0.3058900	0.3058900	0.01	20.43		AVRG
Propionitrile	4.6e-002	5.37e-002	5.37e-002	0.01	16.74		AVRG
1,1-Dichloroethane	1.1960000	1.1600000	1.1600000	0.01	-3.01		AVRG
Acrylonitrile	0.1210000	0.1280100	0.1280100	0.01	5.79		AVRG
Vinyl Acetate	19.751000	50.000000	0.1781400	0.01	-60.50		LINR
cis-1,2-Dichloroethene	0.6930000	0.6822600	0.6822600	0.01	-1.55		AVRG
1,2-Dichloroethylene (total)	1.3360000	1.3004000	1.3004000	0.01	-2.66		AVRG
Methyl Methacrylate	0.2180000	0.2844600	0.2844600	0.01	30.49		AVRG
Chloroform	1.1110000	1.1037000	1.1037000	0.01	-0.66	20.00	AVRG
Carbon Tetrachloride	56.114000	50.000000	0.4128000	0.01	12.23		2RDR
1,1,1-Trichloroethane	0.8320000	0.8640400	0.8640400	0.01	3.85		AVRG
2-Butanone	5.4e-002	8.65e-002	8.65e-002	0.01	60.18		AVRG

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: 'KATAHDIN ANALYTICAL SERVICE Lab Code: KAS

Project: 101-16 SDG No.: CTO233-4

Instrument ID: GCMS-S Calibration Date: 02/10/03 Time: 1225

Lab File ID: S5833 Init. Calib. Date(s): 11/21/02 11/21/02

Init. Calib. Times: 0741 1026

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Benzene	1.6780000	1.6513000	1.6513000	0.01	-1.59		AVRG	
Ethyl Methacrylate	0.3750000	0.4144000	0.4144000	0.01	10.51		AVRG	
1,2-Dichloroethane	0.4590000	0.5771100	0.5771100	0.01	25.73		AVRG	
Trichloroethene	0.4180000	0.4051300	0.4051300	0.01	-3.08		AVRG	
Dibromomethane	61.171000	50.000000	0.2463200	0.01	22.34		LINR	
1,2-Dichloropropane	0.4260000	0.4336000	0.4336000	0.01	1.78	20.00	AVRG	
Bromodichloromethane	0.4790000	0.5560100	0.5560100	0.01	16.08		AVRG	
cis-1,3-dichloropropene	57.592000	50.000000	0.7152300	0.01	15.18		LINR	
1,4-Dioxane	1235.8000	1000.0000	2.14e-003	0.01	23.58		2RDR	<-
2-Chloroethylvinylether	12.877000	50.000000	3.96e-003	0.01	-74.25		LINR	<-
Toluene	0.9490000	0.9736100	0.9736100	0.01	2.59	20.00	AVRG	
4-methyl-2-pentanone	0.2240000	0.3672200	0.3672200	0.01	63.94		AVRG	
Tetrachloroethene	0.3300000	0.3476700	0.3476700	0.01	5.35		AVRG	
trans-1,3-Dichloropropene	59.032000	50.000000	0.5796800	0.01	18.06		LINR	
1,1,2-Trichloroethane	0.2480000	0.2877600	0.2877600	0.01	16.03		AVRG	
Dibromochloromethane	0.3830000	0.4571200	0.4571200	0.01	19.35		AVRG	
1,2-Dibromoethane	0.2780000	0.3294500	0.3294500	0.01	18.51		AVRG	
2-Hexanone	0.2290000	0.4302400	0.4302400	0.01	87.88		AVRG	
Chlorobenzene	1.2470000	1.2905000	1.2905000	0.3	3.49		AVRG	
Ethylbenzene	2.0150000	2.0327000	2.0327000	0.01	0.88	20.00	AVRG	
1,1,1,2-Tetrachloroethane	0.4460000	0.4584200	0.4584200	0.01	2.78		AVRG	
Xylenes (total)	2.2330000	2.2237000	2.2237000	0.01	-0.42		AVRG	
m+p-Xylenes	0.7520000	0.7467800	0.7467800	0.01	-0.69		AVRG	
o-Xylene	0.7300000	0.7301700	0.7301700	0.01	0.02		AVRG	
Styrene	1.2520000	1.3492000	1.3492000	0.01	7.76		AVRG	
Bromoform	0.2250000	0.2741500	0.2741500	0.1	21.84		AVRG	
trans-1,4-Dichloro-2-Butene	0.2460000	0.2844900	0.2844900	0.01	15.65		AVRG	
1,1,2,2-Tetrachloroethane	0.9080000	1.0599000	1.0599000	0.3	16.73		AVRG	
1,2,3-Trichloropropane	1.1580000	1.2543000	1.2543000	0.01	8.32		AVRG	

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: 'KATAHDIN ANALYTICAL SERVICE Lab Code: KAS

Project: 101-16 SDG No.: CTO233-4

Instrument ID: GCMS-S Calibration Date: 02/10/03 Time: 1225

Lab File ID: S5833 Init. Calib. Date(s): 11/21/02 11/21/02

Init. Calib. Times: 0741 1026

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Pentachloroethane	0.8740000	0.7218300	0.7218300	0.01	-17.41		AVRG
1,2-Dibromo-3-Chloropropane	0.2770000	0.2784100	0.2784100	0.01	0.51		AVRG
Dibromofluoromethane	0.6030000	0.5173700	0.5173700	0.01	-14.20		AVRG
1,2-Dichloroethane-D4	0.5690000	0.5727800	0.5727800	0.01	0.66		AVRG
Toluene-D8	1.2590000	1.1849000	1.1849000	0.01	-5.88		AVRG
P-Bromofluorobenzene	0.4900000	0.5011000	0.5011000	0.01	2.26		AVRG

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gcms-s.i\s021003.b\S5833.D
Lab Smp Id: VSTD050S10C
Inj Date : 10-FEB-2003 12:25
Operator : JEY Inst ID: gcms-s.i
Smp Info : VSTD050S10C
Misc Info : SW846 8260B
Comment :
Method : \\Target_server\GG\chem\gcms-s.i\s021003.b\8260APIX.m
Meth Date : 05-Mar-2003 10:55 bgosselin Quant Type: ISTD
Cal Date : 21-NOV-2002 10:26 Cal File: S5036.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260APPIX-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
1 Dichlorodifluoromethane	85	1.959	2.015	(0.208)	95742	50.0000	44.6
2 Chloromethane	50	2.191	2.259	(0.233)	139966	50.0000	45.2
3 Vinyl chloride	62	2.296	2.375	(0.244)	110019	50.0000	46.0
4 Bromomethane	94	2.713	2.804	(0.289)	61028	50.0000	51.7
5 Chloroethane	64	2.887	2.978	(0.307)	67672	50.0000	50.3
6 Trichlorofluoromethane	101	3.073	3.175	(0.327)	116238	50.0000	47.0
9 1,1-Dichloroethene	96	3.792	3.917	(0.403)	80070	50.0000	47.2
14 Methylene Chloride	84	4.708	4.857	(0.501)	109611	50.0000	49.1
17 trans-1,2-Dichloroethene	96	4.998	5.159	(0.531)	92672	50.0000	48.1
26 1,1-Dichloroethane	63	6.205	6.411	(0.660)	173912	50.0000	48.5
35 Chloroform	83	8.165	8.383	(0.868)	165459	50.0000	49.7
39 1,1,1-Trichloroethane	97	8.559	8.743	(0.910)	129535	50.0000	51.9
49 1,2-Dichloroethane	62	9.499	9.636	(1.000)	129710	50.0000	62.8
36 Carbon Tetrachloride	117	8.420	8.615	(1.000)	92780	50.0000	56.1(H)
42 Benzene	78	9.209	9.358	(1.000)	371131	50.0000	49.2
53 1,2-Dichloropropane	63	10.578	10.691	(1.000)	97455	50.0000	50.8
50 Trichloroethene	95	10.021	10.135	(1.000)	91055	50.0000	48.5(H)
52 Dibromomethane	93	10.473	10.575	(1.000)	55361	50.0000	61.2(H)
54 Bromodichloromethane	83	10.659	10.773	(1.000)	124966	50.0000	58.0
55 cis-1,3-dichloropropene	75	11.332	11.457	(1.000)	160752	50.0000	57.6
60 Toluene	92	11.599	11.724	(1.000)	218824	50.0000	51.3
63 trans-1,3-Dichloropropene	75	12.109	12.234	(1.000)	130286	50.0000	59.0
64 1,1,2-Trichloroethane	83	12.294	12.408	(1.000)	64675	50.0000	58.1
65 Dibromochloromethane	129	12.492	12.605	(0.941)	84469	50.0000	59.6

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
62	Tetrachloroethene	164	12.074	12.199	(0.909)	64245	50.0000	52.7
67	1,2-Dibromoethane	107	12.735	12.837	(1.000)	74046	50.0000	59.2
70	Chlorobenzene	112	13.222	13.313	(0.996)	238467	50.0000	51.8
72	1,1,1,2-Tetrachloroethane	131	13.280	13.371	(1.000)	84709	50.0000	51.4
71	Ethylbenzene	91	13.246	13.336	(0.997)	375621	50.0000	50.4 (H)
77	Bromoform	173	13.768	13.858	(1.037)	50659	50.0000	60.9
76	Styrene	104	13.744	13.823	(1.035)	249322	50.0000	53.9
85	1,1,2,2-Tetrachloroethane	83	14.278	14.345	(0.961)	80261	50.0000	58.3
88	1,2,3-Trichloropropane	75	14.371	14.438	(0.967)	94986	50.0000	54.2 (H)
100	1,2-Dibromo-3-Chloropropane	75	15.623	15.726	(1.052)	21083	50.0000	50.3
15	Acetone	58	4.778	4.927	(0.508)	66078	250.000	331
41	2-Butanone	72	8.791	8.952	(0.935)	64860	250.000	397
61	4-methyl-2-pentanone	43	12.051	12.188	(1.000)	412669	250.000	410
68	2-Hexanone	43	12.944	13.035	(0.975)	397513	250.000	469
29	Vinyl Acetate	43	6.843	7.072	(1.000)	40038	50.0000	19.8
10	Carbon Disulfide	76	3.827	3.952	(0.407)	278779	50.0000	45.1
20	Acetonitrile	39	5.613	5.797	(0.597)	16279	500.000	520
13	Acrolein	56	4.291	4.428	(0.456)	45028	250.000	450
27	Acrylonitrile	52	6.286	6.492	(0.668)	95955	250.000	265
23	Chloroprene	53	6.286	6.376	(0.668)	116234	50.0000	45.7
18	Allyl Chloride	41	4.523	4.671	(0.481)	109853	50.0000	46.6
57	1,4-Dioxane	88	10.879	10.981	(1.081)	9602	1000.00	1240 (TM)
25	Propionitrile	54	9.244	9.381	(0.983)	80517	500.000	580
45	Ethyl Methacrylate	69	12.306	12.420	(1.000)	93140	50.0000	55.2
12	Iodomethane	142	3.989	4.126	(0.424)	96024	50.0000	67.0
16	Isobutyl Alcohol	43	5.207	5.379	(0.554)	115710	1000.00	1450
24	Methacrylonitrile	41	9.279	9.416	(0.986)	458586	500.000	602 (H)
32	Methyl Methacrylate	41	10.845	10.958	(1.000)	63933	50.0000	65.2
91	Pentachloroethane	117	14.591	14.658	(0.982)	54661	50.0000	41.3
81	trans-1,4-Dichloro-2-Butene	53	14.382	14.461	(0.968)	21543	50.0000	57.7
M 73	Xylenes (total)	106				410914	50.0000	149
74	m+p-Xylenes	106	13.362	13.452	(1.006)	275989	100.000	99.4
75	o-Xylene	106	13.710	13.789	(1.032)	134925	50.0000	50.0
59	2-Chloroethylvinylether	63	11.285	11.399	(1.121)	889	50.0000	12.9 (M)
30	cis-1,2-Dichloroethene	96	7.481	7.711	(0.795)	102283	50.0000	49.2 (M)
M 31	1,2-Dichloroethylene (total)	96				194955	50.0000	97.3
* 43	Pentafluorobenzene	168	9.406	9.543	(1.000)	149917	50.0000	
* 51	1,4-Difluorobenzene	114	10.067	10.181	(1.000)	224756	50.0000	(TM)
* 69	Chlorobenzene-D5	117	13.211	13.301	(1.000)	184786	50.0000	(H)
* 95	1,4-Dichlorobenzene-D4	152	14.858	14.937	(1.000)	75726	50.0000	
$ 38	Dibromofluoromethane	113	8.548	8.731	(0.909)	77562	50.0000	42.9
$ 46	1,2-Dichloroethane-D4	65	9.406	9.543	(1.000)	85870	50.0000	50.3 (H)
$ 58	Toluene-D8	98	11.541	11.666	(1.000)	266318	50.0000	47.0
$ 79	P-Bromofluorobenzene	95	14.139	14.218	(1.000)	112626	50.0000	51.1 (H)

QC Flag Legend

T - Target compound detected outside RT window.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Katahdin Analytical Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcms-s.i
Lab File ID: S5833.D
Lab Smp Id: VSTD050S10C
Analysis Type: VOA
Quant Type: ISTD
Operator: JEY
Method File: \\Target_server\GG\chem\gcms-s.i\s021003.b\8260APIX.m
Misc Info: SW846 8260B

Calibration Date: 10-FEB-2003
Calibration Time: 12:25
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
43 Pentafluorobenzen	149917	74959	299834	149917	0.00
51 1,4-Difluorobenze	224756	112378	449512	224756	0.00
69 Chlorobenzene-D5	184786	92393	369572	184786	0.00
95 1,4-Dichlorobenze	75726	37863	151452	75726	0.00

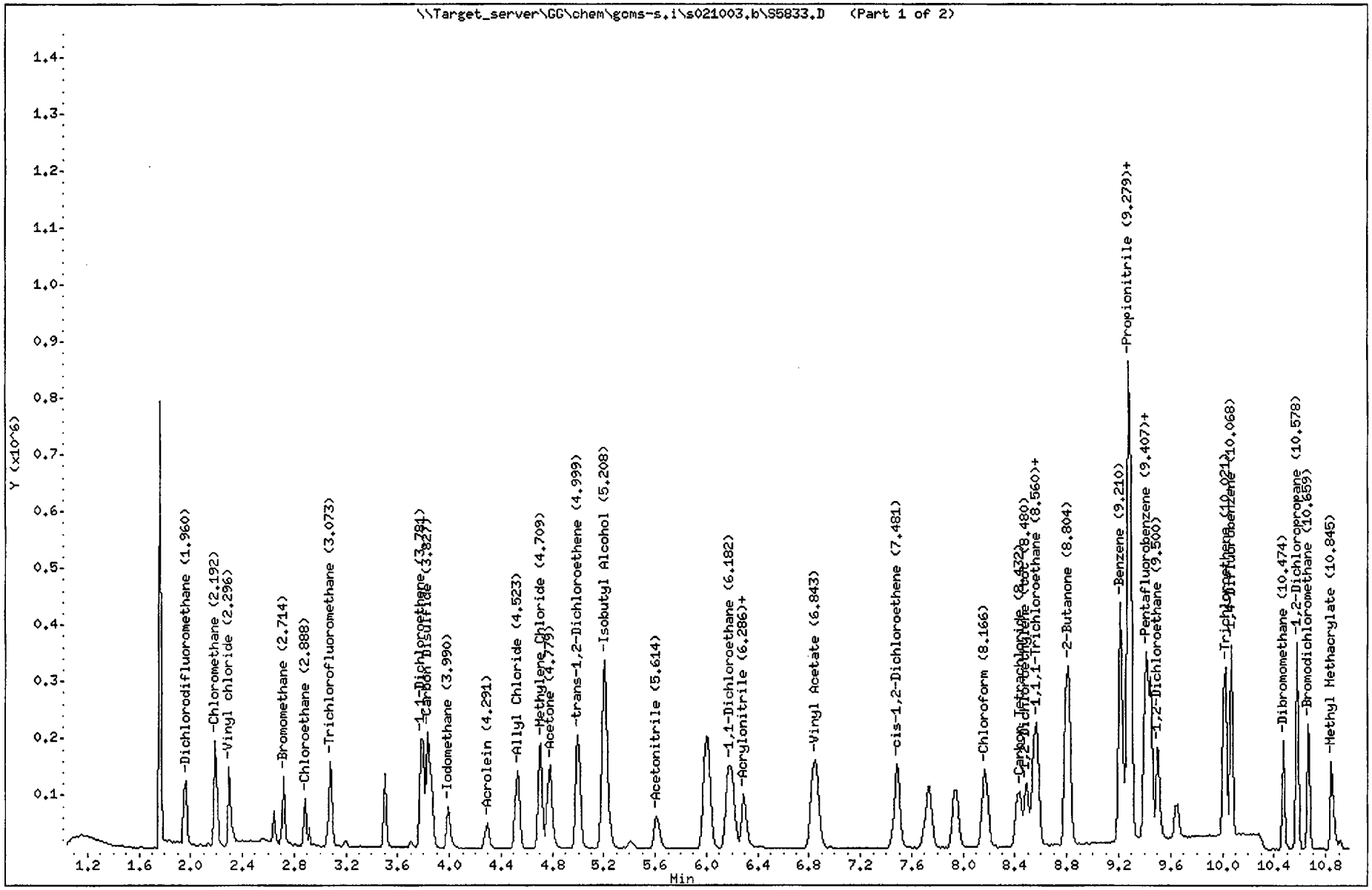
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
43 Pentafluorobenzen	9.41	8.91	9.91	9.41	0.00
51 1,4-Difluorobenze	10.07	9.57	10.57	10.07	0.00
69 Chlorobenzene-D5	13.21	12.71	13.71	13.21	0.00
95 1,4-Dichlorobenze	14.86	14.36	15.36	14.86	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\Target_server\GC\chem\gcms-s.i\s021003.b\S5833.D
Date : 10-FEB-2003 12:25
Client ID:
Sample Info: VSTD050S10C
Purge Volume: 5.0
Column phase: RTX-VMS

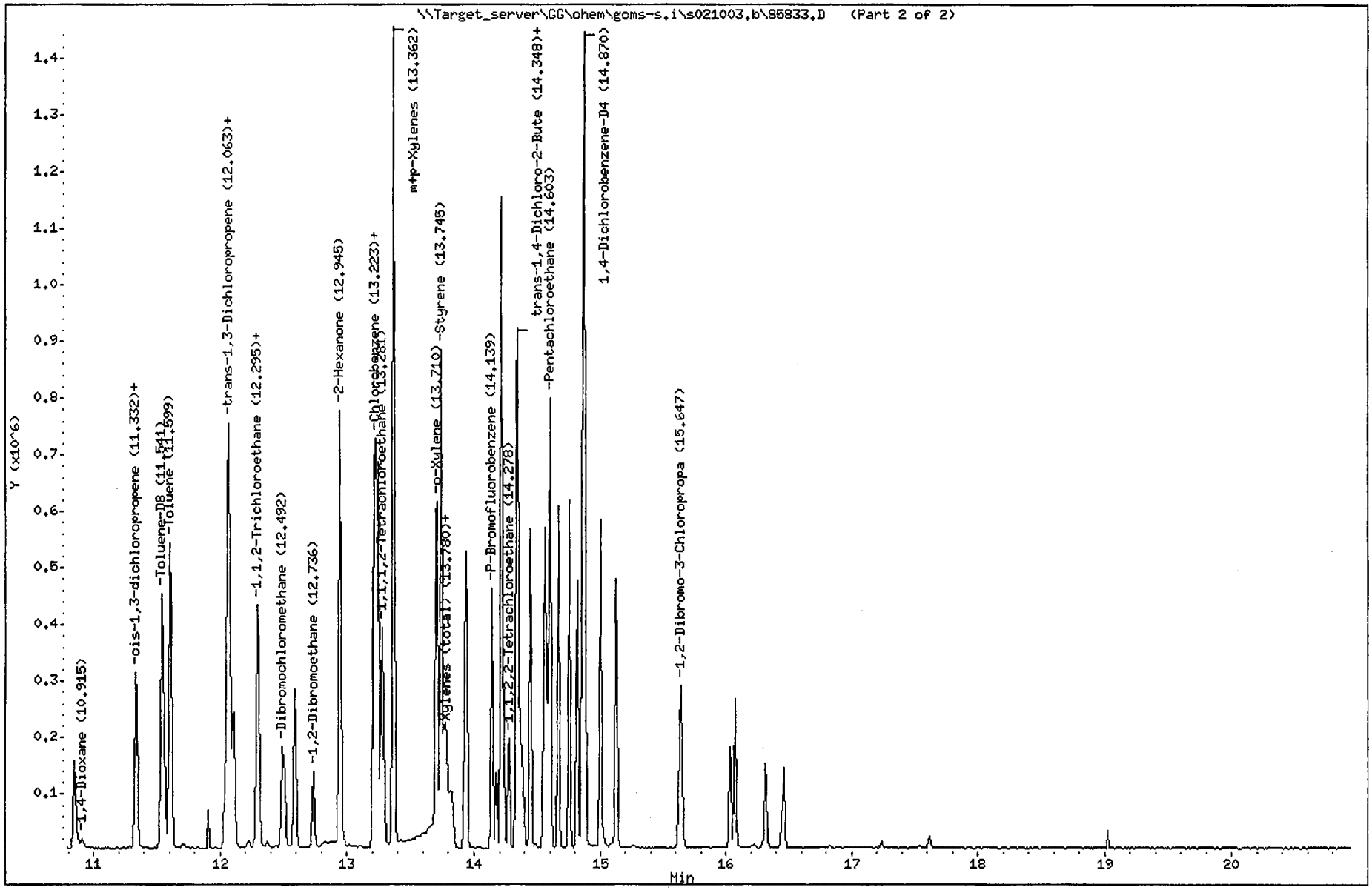
Instrument: gcms-s.i
Operator: JEY
Column diameter: 0.18

\\Target_server\GC\chem\gcms-s.i\s021003.b\S5833.D (Part 1 of 2)



Data File: \\Target_server\GC\chem\gcms-s.i\s021003.b\S5833.D
Date : 10-FEB-2003 12:25
Client ID:
Sample Info: VSTD050S10C
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: gcms-s.i
Operator: JEY
Column diameter: 0.18



KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: NAF KEY WEST CTO233
PO No:
Sample Date:
Received Date:
Extraction Date: 02/10/03
Analysis Date: 02/10/03
Report Date: 03/05/2003
Matrix: WATER
% Solids: NA

Lab ID: WG1695-1
Client ID: WG1695-Blank
SDG: CTO233-4
Extracted by: JEY
Extraction Method: SW846 5030
Analyst: JEY
Analysis Method: SW846 8260B
Lab Prep Batch: WG1695
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	5	1.0	5	5	0.2
74-87-3	Chloromethane	U	5	1.0	5	5	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	5	1.0	5	5	0.9
75-00-3	Chloroethane	U	5	1.0	5	5	0.3
75-69-4	Trichlorofluoromethane	U	5	1.0	5	5	0.2
75-35-4	1,1-Dichloroethene	U	5	1.0	5	5	0.3
75-15-0	Carbon Disulfide	U	5	1.0	5	5	0.2
74-88-4	Iodomethane	U	10	1.0	10	10	0.2
107-02-8	Acrolein	U	50	1.0	50	50	3
75-09-2	Methylene Chloride	J	0.9	1.0	5	5	0.3
67-64-1	Acetone	U	10	1.0	10	10	3
78-83-1	Isobutyl Alcohol	U	100	1.0	100	100	78
156-60-5	trans-1,2-Dichloroethene	U	5	1.0	5	5	0.7
107-05-1	Allyl Chloride	U	10	1.0	10	10	1
75-05-8	Acetonitrile	U	50	1.0	50	50	6
126-99-8	Chloroprene	U	10	1.0	10	10	2
126-98-7	Methacrylonitrile	U	50	1.0	50	50	11
107-12-0	Propionitrile	U	50	1.0	50	50	16
75-34-3	1,1-Dichloroethane	U	5	1.0	5	5	0.1
107-13-1	Acrylonitrile	U	10	1.0	10	10	0.8
108-05-4	Vinyl Acetate	U	5	1.0	5	5	0.3
156-59-2	cis-1,2-Dichloroethene	U	5	1.0	5	5	0.5
540-59-0	1,2-Dichloroethylene (total)	U	5	1.0	5	5	1
80-62-6	Methyl Methacrylate	U	10	1.0	10	10	1
67-66-3	Chloroform	U	5	1.0	5	5	0.2
56-23-5	Carbon Tetrachloride	U	5	1.0	5	5	0.3
71-55-6	1,1,1-Trichloroethane	U	5	1.0	5	5	0.7
78-93-3	2-Butanone	U	10	1.0	10	10	2
71-43-2	Benzene	U	5	1.0	5	5	0.1
97-63-2	Ethyl Methacrylate	U	10	1.0	10	10	0.9
107-06-2	1,2-Dichloroethane	U	5	1.0	5	5	0.3
79-01-6	Trichloroethene	U	5	1.0	5	5	0.6
74-95-3	Dibromomethane	U	5	1.0	5	5	0.4
78-87-5	1,2-Dichloropropane	U	5	1.0	5	5	0.2
75-27-4	Bromodichloromethane	U	5	1.0	5	5	0.2
10061-01-5	cis-1,3-dichloropropene	U	5	1.0	5	5	0.4
123-91-1	1,4-Dioxane	U	100	1.0	100	100	43
110-75-8	2-Chloroethylvinylether	U	5	1.0	5	5	0.5
108-88-3	Toluene	U	5	1.0	5	5	0.2
108-10-1	4-methyl-2-pentanone	U	10	1.0	10	10	2
127-18-4	Tetrachloroethene	U	5	1.0	5	5	0.4
10061-02-6	trans-1,3-Dichloropropene	U	5	1.0	5	5	0.4

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: NAF KEY WEST CTO233
PO No:
Sample Date:
Received Date:
Extraction Date: 02/10/03
Analysis Date: 02/10/03
Report Date: 03/05/2003
Matrix: WATER
% Solids: NA

Lab ID: WG1695-1
Client ID: WG1695-Blank
SDG: CTO233-4
Extracted by: JEY
Extraction Method: SW846 5030
Analyst: JEY
Analysis Method: SW846 8260B
Lab Prep Batch: WG1695
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
79-00-5	1,1,2-Trichloroethane	U	5	1.0	5	5	0.3
124-48-1	Dibromochloromethane	U	5	1.0	5	5	0.3
106-93-4	1,2-Dibromoethane	U	5	1.0	5	5	0.2
591-78-6	2-Hexanone	U	10	1.0	10	10	2
108-90-7	Chlorobenzene	U	5	1.0	5	5	0.2
100-41-4	Ethylbenzene	U	5	1.0	5	5	0.1
630-20-6	1,1,1,2-Tetrachloroethane	U	5	1.0	5	5	0.2
1330-20-7	Xylenes (total)	J	0.2	1.0	5	5	0.2
	m+p-Xylenes	J	0.2	1.0	5	5	0.2
95-47-6	o-Xylene	U	5	1.0	5	5	0.2
100-42-5	Styrene	U	5	1.0	5	5	0.3
75-25-2	Bromoform	U	5	1.0	5	5	0.4
110-57-6	trans-1,4-Dichloro-2-Butene	U	10	1.0	10	10	0.5
79-34-5	1,1,2,2-Tetrachloroethane	U	5	1.0	5	5	0.4
96-18-4	1,2,3-Trichloropropane	U	5	1.0	5	5	0.9
76-01-1	Pentachloroethane	U	10	1.0	10	10	2
96-12-8	1,2-Dibromo-3-Chloropropane	U	5	1.0	5	5	0.6
1868-53-7	Dibromofluoromethane		80%				
17060-07-0	1,2-Dichloroethane-D4		96%				
2037-26-5	Toluene-D8		91%				
460-00-4	P-Bromofluorobenzene		97%				

Katahdin Analytical Services

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: WG1695-1
Operator : JEY
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 10-FEB-2003 13:55

Client SDG: SDGa01256
Client Smp ID: WG1695-Blank
Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: NAF KEY WEST CTO233
PO No:
Sample Date:
Received Date:
Extraction Date: 02/10/03
Analysis Date: 02/10/03
Report Date: 03/05/2003
Matrix: WATER

Lab ID: WG1695-2
Client ID: WG1695-LCS
SDG: CTO233-4
Extracted by: JEY
Extraction Method: SW846 5030
Analyst: JEY
Analysis Method: SW846 8260B
Lab Prep Batch: WG1695
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
Dichlorodifluoromethane	50	NA	40		80	4-217
Chloromethane	50	NA	39		79	40-163
Vinyl chloride	50	NA	44		89	55-151
Bromomethane	50	NA	49		98	24-217
Chloroethane	50	NA	49		99	69-134
Trichlorofluoromethane	50	NA	48		96	71-147
1,1-Dichloroethene	50	NA	43		87	78-136
Carbon Disulfide	50	NA	45		90	70-136
Iodomethane	50	NA	75	*	150	60-140
Acrolein	250	NA	434		174	0-199
Methylene Chloride	50	NA	41		82	52-115
Acetone	50	NA	36		71	0-158
Isobutyl Alcohol	1000	NA	1270		127	60-140
trans-1,2-Dichloroethene	50	NA	45		90	84-131
Allyl Chloride	50	NA	48		97	60-140
Acetonitrile	500	NA	507		101	53-141
Chloroprene	50	NA	40		81	60-140
Methacrylonitrile	500	NA	557		111	60-140
Propionitrile	500	NA	531		106	60-140
1,1-Dichloroethane	50	NA	44		88	81-134
Acrylonitrile	250	NA	246		98	29-172
Vinyl Acetate	50	NA	18	*	35	68-174
cis-1,2-Dichloroethene	50	NA	44		87	84-123
1,2-Dichloroethylene (total)	100	NA	89		89	84-131
Methyl Methacrylate	50	NA	61		122	60-140
Chloroform	50	NA	44		88	80-130
Carbon Tetrachloride	50	NA	54		107	74-137
1,1,1-Trichloroethane	50	NA	48		96	76-138
2-Butanone	50	NA	70		140	49-154
Benzene	50	NA	43	*	86	88-120
Ethyl Methacrylate	50	NA	50		101	60-140
1,2-Dichloroethane	50	NA	51		102	78-138
Trichloroethene	50	NA	38	*	77	80-125
Dibromomethane	50	NA	51		102	88-130
1,2-Dichloropropane	50	NA	43		85	80-122
Bromodichloromethane	50	NA	46		93	83-133
cis-1,3-dichloropropene	50	NA	47		94	81-138
1,4-Dioxane	1000	NA	930		93	60-140
2-Chloroethylvinylether	50	NA	33		66	50-211
Toluene	50	NA	45		90	88-121
4-methyl-2-pentanone	50	NA	63		127	72-140
Tetrachloroethene	50	NA	53		107	77-129
trans-1,3-Dichloropropene	50	NA	50		100	81-149
1,1,2-Trichloroethane	50	NA	46		92	82-126
Dibromochloromethane	50	NA	52		104	80-133

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: NAF KEY WEST CTO233
PO No:
Sample Date:
Received Date:
Extraction Date: 02/10/03
Analysis Date: 02/10/03
Report Date: 03/05/2003
Matrix: WATER

Lab ID: WG1695-2
Client ID: WG1695-LCS
SDG: CTO233-4
Extracted by: JEY
Extraction Method: SW846 5030
Analyst: JEY
Analysis Method: SW846 8260B
Lab Prep Batch: WG1695
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
1,2-Dibromoethane	50	NA	50	100	88-127
2-Hexanone	50	NA	67	133	45-146
Chlorobenzene	50	NA	48	97	84-123
Ethylbenzene	50	NA	49	98	84-131
1,1,1,2-Tetrachloroethane	50	NA	48	97	83-130
Xylenes (total)	150	NA	146	97	88-123
m+p-Xylenes	100	NA	97	97	88-122
o-Xylene	50	NA	49	99	90-123
Styrene	50	NA	50	100	87-137
Bromoform	50	NA	54	109	77-138
trans-1,4-Dichloro-2-Butene	50	NA	52	103	60-140
1,1,2,2-Tetrachloroethane	50	NA	48	96	81-131
1,2,3-Trichloropropane	50	NA	46	93	76-132
Pentachloroethane	50	NA	43	86	60-140
1,2-Dibromo-3-Chloropropane	50	NA	48	95	61-136

KATAHDIN ANALYTICAL SERVICES
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 02/01/03
Received Date: 02/04/03
Extraction Date: 02/10/03
Analysis Date: 02/10/03
Report Date: 03/05/2003
Matrix: WATER

Lab ID: WG1695-3 & WG1695-4
Client ID: S9MW-5-0103MS & S9MW-5-0103MSD
SDG: CTO233-4
Extracted by: JEY
Extraction Method: SW846 5030
Analyst: JEY
Analysis Method: SW846 8260B
Lab Prep Batch: WG1695
Units: ug/l

COMPOUND	MS SPIKE	MSD SPIKE	SAMPLE CONC.	MS CONC.	MSD CONC.	MS %REC.	MSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
Dichlorodifluoromethane	50	50	0.00	48	46	97	92	6	20	60-140
Chloromethane	50	50	0.00	40	39	80	77	3	20	60-140
Vinyl chloride	50	50	0.00	46	47	91	95	4	20	60-140
Bromomethane	50	50	0.00	15	20	* 30	* 41	* 32	20	60-140
Chloroethane	50	50	0.00	53	52	105	104	2	20	60-140
Trichlorofluoromethane	50	50	0.00	60	59	120	119	1	20	60-140
1,1-Dichloroethene	50	50	0.00	47	50	94	99	5	20	44-167
Carbon Disulfide	50	50	0.18	50	51	100	101	0.8	20	60-140
Iodomethane	50	50	0.00	43	62	87	123	* 35	20	60-140
Acrolein	50	50	0.00	496	465	* 992	* 930	6	20	60-140
Methylene Chloride	50	50	0.00	42	42	84	84	0.7	20	60-140
Acetone	50	50	0.00	25	23	* 51	* 46	9	20	60-140
Isobutyl Alcohol	1000	1000	0.00	1500	1470	* 150	* 147	2	20	60-140
trans-1,2-Dichloroethene	50	50	0.00	48	48	96	96	0.2	20	60-140
Allyl Chloride	50	50	0.00	67	72	134	* 144	7	20	60-140
Acetonitrile	500	500	0.00	580	608	116	122	5	20	60-140
Chloroprene	1000	1000	0.00	47	49	* 5	* 5	3	20	60-140
Methacrylonitrile	500	500	0.00	672	656	134	131	2	20	60-140
Propionitrile	500	500	0.00	643	638	129	128	0.8	20	60-140
1,1-Dichloroethane	50	50	0.00	48	48	95	97	2	20	60-140
Acrylonitrile	50	50	0.00	275	285	* 550	* 570	4	20	60-140
Vinyl Acetate	50	50	0.00	29	30	* 59	60	2	20	60-140
cis-1,2-Dichloroethene	50	50	0.00	45	47	90	94	4	20	60-140
1,2-Dichloroethylene (total)	100	100	0.00	93	95	93	95	2	20	60-140
Methyl Methacrylate	50	50	0.00	74	74	* 149	* 147	1	20	60-140
Chloroform	50	50	0.00	49	48	98	96	2	20	60-140
Carbon Tetrachloride	50	50	0.00	62	62	124	123	0.3	20	60-140
1,1,1-Trichloroethane	50	50	0.00	54	54	108	107	0.6	20	60-140
2-Butanone	50	50	0.00	71	70	* 141	140	1.0	20	60-140
Benzene	50	50	2.9	50	50	94	95	0.8	20	64-140
Ethyl Methacrylate	50	50	0.00	64	62	127	124	2	20	60-140
1,2-Dichloroethane	50	50	0.00	58	56	116	112	4	20	60-140
Trichloroethene	50	50	0.00	43	42	87	83	4	20	62-134
Dibromomethane	50	50	0.00	55	54	110	108	2	20	60-140
1,2-Dichloropropane	50	50	0.00	48	47	95	95	0.8	20	60-140
Bromodichloromethane	50	50	0.00	53	52	105	103	2	20	60-140
cis-1,3-dichloropropene	50	50	0.00	50	50	101	101	0.2	20	60-140
1,4-Dioxane	50	50	0.00	1650	1920	* 3300	* 3840	15	20	60-140
2-Chloroethylvinylether	50	50	0.00	50	0.0	100	* 0		20	60-140
Toluene	50	50	0.00	50	51	101	102	2	20	65-142
4-methyl-2-pentanone	50	50	0.00	72	70	* 144	140	3	20	60-140
Tetrachloroethene	50	50	0.00	51	53	102	106	4	20	60-140
trans-1,3-Dichloropropene	50	50	0.00	55	54	111	109	2	20	60-140
1,1,2-Trichloroethane	50	50	0.00	51	50	103	100	3	20	60-140
Dibromochloromethane	50	50	0.00	55	56	111	112	1	20	60-140

FORM III VOA-1

S5843.D & S5844.D

KATAHDIN ANALYTICAL SERVICES
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Client: Tetra Tech NUS, Inc
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 02/01/03
Received Date: 02/04/03
Extraction Date: 02/10/03
Analysis Date: 02/10/03
Report Date: 03/05/2003
Matrix: WATER

Lab ID: WG1695-3 & WG1695-4
Client ID: S9MW-5-0103MS & S9MW-5-0103MSD
SDG: CTO233-4
Extracted by: JEY
Extraction Method: SW846 5030
Analyst: JEY
Analysis Method: SW846 8260B
Lab Prep Batch: WG1695
Units: ug/l

COMPOUND	MS SPIKE	MSD SPIKE	SAMPLE CONC.	MS CONC.	MSD CONC.	MS %REC.	MSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
1,2-Dibromoethane	50	50	0.00	53	53	107	106	0.6	20	60-140
2-Hexanone	50	50	0.00	61	58	121	116	4	20	60-140
Chlorobenzene	50	50	0.00	51	51	102	103	0.6	20	68-140
Ethylbenzene	50	50	2.5	54	55	103	104	1	20	60-140
1,1,1,2-Tetrachloroethane	50	50	0.00	50	50	101	100	0.4	20	60-140
Xylenes (total)	150	150	0.00	152	155	101	103	2	20	60-140
m+p-Xylenes	100	100	0.00	101	104	101	104	3	20	60-140
o-Xylene	50	50	0.00	51	52	102	103	1.0	20	60-140
Styrene	50	50	0.00	52	51	103	103	0.8	20	60-140
Bromoform	50	50	0.00	57	57	114	114	0.2	20	60-140
trans-1,4-Dichloro-2-Butene	50	50	0.00	59	59	119	119	0.0	20	60-140
1,1,2,2-Tetrachloroethane	50	50	0.00	54	53	107	105	2	20	60-140
1,2,3-Trichloropropane	50	50	0.00	53	52	106	105	2	20	60-140
Pentachloroethane	50	50	0.00	51	55	103	110	6	20	60-140
1,2-Dibromo-3-Chloropropane	50	50	0.00	53	56	106	111	5	20	60-140

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Lab File ID (Standard): S5833 Date Analyzed: 02/10/03

Instrument ID: GCMS-S Time Analyzed: 1225

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

		IS1(PFB) AREA #	IS1(PFB) RT #	IS2(DFB) AREA #	IS2(DFB) RT #	IS3(CBZ) AREA #	IS3(CBZ) RT #
12 HOUR STD		149917	9.41	224756	10.07	184786	13.21
UPPER LIMIT		299834	9.91	449512	10.57	369572	13.71
LOWER LIMIT		74959	8.91	112378	9.57	92393	12.71
	CLIENT SAMPLE ID	LAB SAMPLE ID					
01	WG1695-LCS	WG1695-2	151219	9.41	232588	10.07	176321	13.21
02	WG1695-BLANK	WG1695-1	154793	9.41	227428	10.07	180689	13.20
03	S9MW-21-0103	WT0246-5	146827	9.42	223112	10.07	174042	13.21
04	S1MW-5-0103	WT0246-9	136937	9.41	213438	10.07	168345	13.21
05	S9MW-14-0103-DL	WT0246-3	137694	9.41	204089	10.07	159873	13.22
06	S9MW-15-0103-DL	WT0246-4	132715	9.42	202937	10.08	160062	13.21
07	S9MW-24-0103-DL	WT0246-6	131106	9.42	202550	10.08	163404	13.21
08	0103-DUP-06-DL	WT0246-8	132423	9.42	198558	10.07	157781	13.22
09	S9MW-22-0103-DL	WT0246-13	131717	9.42	195714	10.08	157095	13.21
10	S9MW-5-0103MS	WG1695-3	131815	9.42	198291	10.08	156946	13.21
11	S9MW-5-0103MSD	WG1695-4	141220	9.42	212391	10.08	166799	13.21
12								
13								
14								
15								
16								
17								
18								
19								
20								

IS1 (PFB) = Pentafluorobenzene
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-D5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Lab File ID (Standard): S5833 Date Analyzed: 02/10/03

Instrument ID: GCMS-S Time Analyzed: 1225

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

			IS4 (DCB) AREA	#	RT	#	AREA	#	RT	#	AREA	#	RT	#
12 HOUR STD			75726		14.86									
UPPER LIMIT			151452		15.36									
LOWER LIMIT			37863		14.36									
	CLIENT SAMPLE ID	LAB SAMPLE ID												
01	WG1695-LCS	WG1695-2	78386		14.86									
02	WG1695-BLANK	WG1695-1	75584		14.86									
03	S9MW-21-0103	WT0246-5	70690		14.87									
04	S1MW-5-0103	WT0246-9	68138		14.86									
05	S9MW-14-0103-DL	WT0246-3	67766		14.86									
06	S9MW-15-0103-DL	WT0246-4	66004		14.87									
07	S9MW-24-0103-DL	WT0246-6	68308		14.87									
08	0103-DUP-06-DL	WT0246-8	65037		14.86									
09	S9MW-22-0103-DL	WT0246-13	66470		14.87									
10	S9MW-5-0103MS	WG1695-3	69137		14.87									
11	S9MW-5-0103MSD	WG1695-4	72453		14.87									
12														
13														
14														
15														
16														
17														
18														
19														
20														

IS4 (DCB) = 1,4-Dichlorobenzene-D4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM VIII VOA

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Lab File ID: FB077 BFB Injection Date: 02/05/03

Instrument ID: GCMS-F BFB Injection Time: 0908

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24.6
75	30.0 - 60.0% of mass 95	55.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	5.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	58.4
175	4.0 - 9.0% of mass 174	4.9 (8.4)1
176	95.0 - 101.0% of mass 174	56.5 (96.8)1
177	5.0 - 9.0% of mass 176	2.9 (5.1)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD050F05A	F9107	02/05/03	0948
02		VSTD005F05A	F9109	02/05/03	1116
03		VSTD001F05A	F9110	02/05/03	1149
04		VSTD200F05A	F9111	02/05/03	1222
05		VSTD100F05A	F9112	02/05/03	1255
06		VSTD020F05A	F9113	02/05/03	1327
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GCMS-F Calibration Date(s): 02/05/03 02/05/03

Column: RTX-VMS ID: 0.18 (mm) Calibration Time(s): 0948 1327

LAB FILE ID: RF1: F9110 RF5: F9109 RF20: F9113
RF50: F9107 RF100: F9112 RF200: F9111

COMPOUND	RF1	RF5	RF20	RF50	RF100	RF200	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2	MAX %RSD OR R^2	
Dichlorodifluoromethane	0.741	0.868	0.867	0.826	0.784	0.700	AVRG		0.79762		8.589	15.000	
Chloromethane	1.251	1.145	1.309	1.049	1.124	0.895	AVRG		1.12907		13.074	15.000	
Vinyl chloride	0.989	0.985	1.026	0.827	0.841	0.723	AVRG		0.89854		13.275	15.000	
Bromomethane	2793	12278	45758	55033	211140	324720	2ORDR	0.12272	1.58159	0.75638	0.97526	0.99000	<-
Chloroethane	2534	11715	51871	104100	224380	355740	2ORDR	3.e-002	1.52339	0.63412	0.99676	0.99000	
Trichlorofluoromethane	1.142	1.372	1.342	1.214	1.236	1.096	AVRG		1.23368		8.781	15.000	
Diethyl Ether	0.603	0.710	0.739	0.637	0.700	0.589	AVRG		0.66319		9.312	15.000	
Tertiary-butyl alcohol	896	9984	41690	49639	195360	411550	2ORDR	0.35634	12.9222	-1.1708	0.98383	0.99000	<-
1,1-Dichloroethene	0.485	0.578	0.597	0.505	0.550	0.461	AVRG		0.52931		10.200	15.000	
Carbon Disulfide	2.175	2.135	2.190	1.903	2.019	1.690	AVRG		2.01848		9.627	15.000	
Freon-113	0.314	0.392	0.383	0.341	0.375	0.313	AVRG		0.35291		9.911	15.000	
Iodomethane	396	5367	33724	91999	228390	358740	2ORDR	0.10365	1.51349	0.58270	0.99282	0.99000	
Acrolein	0.130	0.111	0.142	0.132	0.148	0.126	AVRG		0.13149		9.867	15.000	
Methylene Chloride	6566	17070	60349	148470	286620	507760	LINR	-9e-002	1.79090		0.99687	0.99000	
Acetone	5163	16651	68239	73491	349810	647570	2ORDR	0.60863	6.40324	0.12281	0.97616	0.99000	<-
Isobutyl Alcohol	2642	38943	156200	357250	750900	1443200	LINR	-0.2474	12.5899		0.99960	0.99000	
trans-1,2-Dichloroethene	0.654	0.628	0.600	0.574	0.552	0.518	AVRG		0.58765		8.522	15.000	
Allyl Chloride	10131	35672	147420	325620	695060	1175700	LINR	-8e-002	0.76377		0.99364	0.99000	
Methyl tert-butyl ether	2.371	2.304	2.310	2.246	2.198	2.084	AVRG		2.25196		4.507	15.000	
Acetonitrile	3238	6827	31348	63077	148170	276870	LINR	-0.1531	32.7422		0.99783	0.99000	
Di-isopropyl ether	2.889	3.012	3.219	3.245	2.969	2.847	AVRG		3.02999		5.512	15.000	
Hexane							AVRG					0.000	<-
Chloroprene	1.289	1.637	1.563	1.542	1.414	1.357	AVRG		1.46690		9.160	15.000	
Methacrylonitrile	0.720	0.782	0.768	0.726	0.753	0.765	AVRG		0.75228		3.265	15.000	
Propionitrile	0.124	0.137	0.128	0.118	0.125	0.125	AVRG		0.12631		4.814	15.000	
1,1-Dichloroethane	1.582	1.568	1.477	1.386	1.275	1.205	AVRG		1.41553		10.938	15.000	
Acrylonitrile	5753	33488	132680	280660	666150	1297400	LINR	1e-002	3.50933		0.99779	0.99000	
Ethyl tertiary-butyl ether	2.696	2.749	2.906	2.909	2.687	2.616	AVRG		2.76066		4.398	15.000	
Vinyl Acetate	1.634	1.529	1.640	1.504	1.491	1.579	AVRG		1.56257		4.142	15.000	
cis-1,2-Dichloroethene	0.682	0.698	0.639	0.646	0.590	0.545	AVRG		0.63354		9.049	15.000	
1,2-Dichloroethylene (total)							AVRG					0.000	
Methyl Methacrylate	7310	25152	97538	234040	509700	1000400	LINR	2e-002	1.42574		0.99906	0.99000	
2,2-Dichloropropane	1.185	1.388	1.322	1.239	1.115	1.092	AVRG		1.22333		9.507	15.000	
Bromochloromethane	0.240	0.290	0.280	0.254	0.243	0.234	AVRG		0.25688		9.014	15.000	
Chloroform	1.452	1.482	1.438	1.345	1.230	1.185	AVRG		1.35551		9.171	15.000	
Carbon Tetrachloride	0.635	0.659	0.661	0.624	0.586	0.586	AVRG		0.62530		5.365	15.000	
Tetrahydrofuran	0.350	0.284	0.272	0.278	0.268	0.262	AVRG		0.28587		11.354	15.000	
1,1,1-Trichloroethane	1.211	1.356	1.303	1.242	1.127	1.101	AVRG		1.22361		8.054	15.000	
1,1-Dichloropropene	0.584	0.650	0.611	0.567	0.528	0.534	AVRG		0.57879		8.068	15.000	
2-Butanone	2208	14175	53382	87072	272200	540390	LINR	0.38808	8.28801		0.99084	0.99000	
Benzene	1.392	1.648	1.561	1.482	1.351	1.350	AVRG		1.46394		8.330	15.000	
Cyclohexane	6695	6782	13358		27824	45475	LINR	-0.7917	23.5864		0.99148	0.99000	<-
Ethyl Methacrylate	0.606	0.655	0.675	0.603	0.626	0.651	AVRG		0.63599		4.567	15.000	
Methyl Acrylate	601	2821	7440	21053	42326	81258	LINR	-3e-003	17.5891		0.99977	0.99000	

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GCMS-F Calibration Date(s): 02/05/03 02/05/03

Column: RTX-VMS ID: 0.18 (mm) Calibration Time(s): 0948 1327

LAB FILE ID: RF1: F9110 RF5: F9109 RF20: F9113
RF50: F9107 RF100: F9112 RF200: F9111

COMPOUND	RF1	RF5	RF20	RF50	RF100	RF200	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2	MAX %RSD OR R^2	
Tertiary-amyl methyl ether	2.231	2.147	2.117	2.047	2.063	2.062	AVRG		2.11120		3.319	15.000	
1,2-Dichloroethane	0.853	0.948	0.914	0.879	0.836	0.852	AVRG		0.88029		4.861	15.000	
Trichloroethene	4272	16990	65404	173720	303980	571190	LINR	-6e-002	2.51400		0.99863	0.99000	
Dibromomethane	0.338	0.281	0.290	0.273	0.262	0.263	AVRG		0.28457		9.946	15.000	
1,2-Dichloropropane	0.422	0.433	0.454	0.438	0.401	0.405	AVRG		0.42547		4.711	15.000	
Bromodichloromethane	0.644	0.658	0.688	0.677	0.612	0.627	AVRG		0.65118		4.479	15.000	
cis-1,3-dichloropropene	0.786	0.715	0.760	0.718	0.682	0.704	AVRG		0.72760		5.276	15.000	
1-Chlorohexane	436	1101	5199	15831	27650	49694	LINR	-6e-002	28.5507		0.99669	0.99000	
1,4-Dioxane							AVRG					0.000	<-
2-Chloroethylvinylether			0.011	0.012	0.009	0.012	AVRG		1e-002		12.357	15.000	<-
Toluene	0.816	0.978	0.947	0.891	0.837	0.850	AVRG		0.88667		7.271	15.000	
4-methyl-2-pentanone	0.684	0.705	0.671	0.592	0.669	0.718	AVRG		0.67322		6.536	15.000	
Tetrachloroethene	0.266	0.351	0.321	0.319	0.298	0.283	AVRG		0.30641		9.996	15.000	
trans-1,3-Dichloropropene	0.801	0.698	0.749	0.692	0.666	0.695	AVRG		0.71681		6.858	15.000	
1,1,2-Trichloroethane	0.303	0.303	0.299	0.280	0.279	0.285	AVRG		0.29152		3.861	15.000	
Dibromochloromethane	0.549	0.464	0.511	0.500	0.464	0.477	AVRG		0.49413		6.689	15.000	
1,3-Dichloropropane	0.785	0.796	0.795	0.785	0.721	0.730	AVRG		0.76867		4.426	15.000	
1,2-Dibromoethane	0.424	0.390	0.385	0.390	0.370	0.394	AVRG		0.39206		4.513	15.000	
2-Hexanone	22759	119250	439600	785560	2311200	4827100	LINR	0.44020	1.32379		0.99209	0.99000	
Chlorobenzene	1.011	1.168	1.171	1.108	1.024	1.034	AVRG		1.08594		6.730	15.000	
Ethylbenzene	2.295	2.272	2.250	2.088	1.978	1.977	AVRG		2.14336		6.885	15.000	
1,1,1,2-Tetrachloroethane	0.392	0.493	0.442	0.430	0.400	0.394	AVRG		0.42538		9.176	15.000	
Xylenes (total)							AVRG					0.000	
m+p-Xylenes	0.769	0.826	0.801	0.758	0.709	0.713	AVRG		0.76281		6.129	15.000	
o-Xylene	0.747	0.742	0.772	0.734	0.667	0.678	AVRG		0.72338		5.732	15.000	
Styrene	1.256	1.292	1.313	1.322	1.193	1.190	AVRG		1.26094		4.625	15.000	
Bromoform	0.351	0.316	0.333	0.344	0.342	0.348	AVRG		0.33921		3.809	15.000	
Isopropylbenzene	3.794	4.164	4.258	3.973	3.499	3.563	AVRG		3.87530		8.033	15.000	
cis-1,4-Dichloro-2-Butene	0.776	0.494	0.672	0.662	0.623	0.645	AVRG		0.64538		14.132	15.000	
trans-1,4-Dichloro-2-Butene	0.647	0.630	0.689	0.637	0.614	0.595	AVRG		0.63547		5.031	15.000	
Bromobenzene	0.885	1.052	0.922	0.951	0.860	0.868	AVRG		0.92317		7.781	15.000	
N-Propylbenzene	5.392	5.241	5.186	4.955	4.481	4.422	AVRG		4.94615		8.259	15.000	
2-bromo-1-chloropropane	1006	3001	12405	17355	48653	95213	LINR	-2e-002	6.66171		0.99274	0.99000	
1,1,2,2-Tetrachloroethane	4036	17355	65856	161210	326640	666400	LINR	-2e-002	0.95427		0.99953	0.99000	
1,3,5-Trimethylbenzene	3.774	3.936	3.839	3.547	3.223	3.210	AVRG		3.58824		8.783	15.000	
2-Chlorotoluene	3.713	4.059	3.896	3.693	3.278	3.338	AVRG		3.66281		8.357	15.000	
1,2,3-Trichloropropane	2.224	1.857	1.775	1.710	1.686	1.570	AVRG		1.80356		12.573	15.000	
4-Chlorotoluene	3.370	3.846	3.592	3.315	3.033	3.067	AVRG		3.37041		9.231	15.000	
tert-Butylbenzene	3.657	3.617	3.458	3.161	2.940	2.953	AVRG		3.29768		9.808	15.000	
Pentachloroethane	0.958	0.868	0.832	0.881	0.703	0.805	AVRG		0.84133		10.175	15.000	
1,2,4-Trimethylbenzene	3.863	4.124	3.955	3.824	3.432	3.406	AVRG		3.76724		7.676	15.000	
P-Isopropyltoluene	3.077	2.836	2.761	2.922	2.741	2.423	AVRG		2.79322		7.832	15.000	
1,3-Dichlorobenzene	1.862	1.842	1.715	1.644	1.515	1.486	AVRG		1.67723		9.480	15.000	
1,4-Dichlorobenzene	1.698	1.865	1.752	1.667	1.493	1.555	AVRG		1.67157		8.023	15.000	

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GCMS-F Calibration Date(s): 02/05/03 02/05/03

Column: RTX-VMS ID: 0.18 (mm) Calibration Time(s): 0948 1327

LAB FILE ID: RF1: F9110 RF5: F9109 RF20: F9113
RF50: F9107 RF100: F9112 RF200: F9111

COMPOUND	RF1	RF5	RF20	RF50	RF100	RF200	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2	MAX %RSD OR R^2	
N-Butylbenzene	3.069	3.597	3.478	3.052	2.809	2.787	AVRG		3.13208		10.777	15.000	
sec-Butylbenzene	4.488	4.341	4.205	3.828	3.510	3.530	AVRG		3.98378		10.560	15.000	
1,2-Dichlorobenzene	1.694	1.707	1.685	1.590	1.423	1.449	AVRG		1.59137		8.028	15.000	
1,2-Dibromo-3-Chloropropane	1969	10096	37363	79124	165210	325200	LINR	-5e-002	1.96134		0.99944	0.99000	
1,3,5-Trichlorobenzene	1.082	0.962	0.965	0.813	0.804	0.812	AVRG		0.90625		12.640	15.000	
Hexachlorobutadiene	2757	10124	34795	67147	139990	256860	LINR	-0.1181	2.49211		0.99785	0.99000	
1,2,4-Trichlorobenzene	3763	19518	71659	161370	326000	639130	LINR	-5e-002	0.99714		0.99949	0.99000	
1,2,3-Trimethylbenzene	2.215	2.467	2.456	2.393	2.276	2.368	AVRG		2.36256		4.220	15.000	
Naphthalene	10447	46596	158800	332890	744400	1443500	LINR	-4e-002	0.44030		0.99945	0.99000	
1,2,3-Trichlorobenzene	3532	18142	62134	131290	287160	543940	LINR	-6e-002	1.16756		0.99929	0.99000	
Dibromofluoromethane	0.788	0.636	0.689	0.682	0.595	0.596	AVRG		0.66439		10.915	15.000	
1,2-Dichloroethane-D4	1.567	1.170	1.107	1.045	1.037	1.037	AVRG		1.16062		17.726	15.000	<-
Toluene-D8	1.289	1.220	1.266	1.210	1.126	1.187	AVRG		1.21644		4.781	15.000	
P-Bromofluorobenzene	0.695	0.605	0.605	0.586	0.564	0.583	AVRG		0.60649		7.604	15.000	

Average %RSD test result.

Calculate Average %RSD: 7.986255646
Maximum Average %RSD: 15.00000000

Note: Passes Average %RSD Test.

FORM VI VOA

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

	CLIENT SAMPLE ID	LAB SAMPLE ID	SMC1 DBF#	SMC2 DCA#	SMC3 TOL#	SMC4 BFB#	TOT OUT
01	WG1669-LCS	WG1669-2	94	93	98	96	0
02	WG1669-BLANK	WG1669-1	103	101	99	97	0
03	FC-MW-20R-0103	WT0233-2	86	72	97	82	0
04	FC-MW-05-0103	WT0233-3	88	71	96	84	0
05	WG1670-LCS	WG1670-2	97	95	98	97	0
06	WG1670-BLANK	WG1670-1	99	98	101	97	0
07	FC-MW-06-0103	WT0233-1	98	88	99	92	0
08							
09							
10							
11							
12							
13							
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25							
26							
27							
28							

		QC LIMITS
SMC1 (DBF)	= Dibromofluoromethane	(75-129)
SMC2 (DCA)	= 1,2-Dichloroethane-D4	(65-135)
SMC3 (TOL)	= Toluene-D8	(82-120)
SMC4 (BFB)	= P-Bromofluorobenzene	(69-125)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Lab File ID: FB078 BFB Injection Date: 02/05/03

Instrument ID: GCMS-F BFB Injection Time: 1523

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	29.4
75	30.0 - 60.0% of mass 95	54.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	59.3
175	4.0 - 9.0% of mass 174	4.0 (6.7)1
176	95.0 - 101.0% of mass 174	59.2 (100.0)1
177	5.0 - 9.0% of mass 176	3.1 (5.3)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD050F05C	F9115	02/05/03	1545
02	WG1669-LCS	WG1669-2	F9117	02/05/03	1725
03	WG1669-BLANK	WG1669-1	F9119	02/05/03	1831
04	FC-MW-20R-0103	WT0233-2	F9130	02/06/03	0033
05	FC-MW-05-0103	WT0233-3	F9131	02/06/03	0105
06					
07					
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21					
22					

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GCMS-F Calibration Date: 02/05/03 Time: 1545

Lab File ID: F9115 Init. Calib. Date(s): 02/05/03 02/05/03

Init. Calib. Times: 0948 1327

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
m+p-Xylenes	0.7630000	0.6838700	0.6838700	0.01	-10.37		AVRG	
trans-1,2-Dichloroethene	0.5880000	0.5113300	0.5113300	0.01	-13.04		AVRG	
cis-1,2-Dichloroethene	0.6330000	0.5691300	0.5691300	0.01	-10.09		AVRG	
o-Xylene	0.7230000	0.6689600	0.6689600	0.01	-7.47		AVRG	
Chloromethane	1.1290000	1.0454000	1.0454000	0.1	-7.40		AVRG	
Vinyl chloride	0.8980000	0.8421100	0.8421100	0.01	-6.22	20.00	AVRG	
Bromomethane	46.382000	50.000000	0.4232500	0.01	-7.24		2RDR	
Chloroethane	41.180000	50.000000	0.4401700	0.01	-17.64		2RDR	
1,1-Dichloroethene	0.5290000	0.4679900	0.4679900	0.1	-11.53	20.00	AVRG	
Methylene Chloride	45.471000	50.000000	0.5592200	0.01	-9.06		LINR	
Methyl tert-butyl ether	2.2520000	2.1574000	2.1574000	0.01	-4.20		AVRG	
1,1-Dichloroethane	1.4160000	1.2731000	1.2731000	0.01	-10.09		AVRG	
1,2-Dichloroethylene (total)	0.0000000	0.5402300	0.5402300	0.01	0.00		AVRG	<-
Chloroform	1.3550000	1.2351000	1.2351000	0.01	-8.85	20.00	AVRG	
Carbon Tetrachloride	0.6250000	0.5617200	0.5617200	0.01	-10.12		AVRG	
1,1,1-Trichloroethane	1.2230000	1.0955000	1.0955000	0.01	-10.42		AVRG	
Benzene	1.4640000	1.3052000	1.3052000	0.01	-10.85		AVRG	
1,2-Dichloroethane	0.8800000	0.8199800	0.8199800	0.01	-6.82		AVRG	
Trichloroethene	45.054000	50.000000	0.3814000	0.01	-9.89		LINR	
1,2-Dichloropropane	0.4260000	0.3867700	0.3867700	0.01	-9.21	20.00	AVRG	
Bromodichloromethane	0.6510000	0.6066400	0.6066400	0.01	-6.81		AVRG	
cis-1,3-dichloropropene	0.7280000	0.6613300	0.6613300	0.01	-9.16		AVRG	
2-Chloroethylvinylether	1.1e-002	1.2e-002	1.2e-002	0.01	9.09		AVRG	
Toluene	0.8860000	0.7957900	0.7957900	0.01	-10.18	20.00	AVRG	
Tetrachloroethene	0.3060000	0.2784100	0.2784100	0.01	-9.02		AVRG	
trans-1,3-Dichloropropene	0.7170000	0.6458200	0.6458200	0.01	-9.93		AVRG	
1,1,2-Trichloroethane	0.2920000	0.2756600	0.2756600	0.01	-5.60		AVRG	
Dibromochloromethane	0.4940000	0.4818900	0.4818900	0.01	-2.45		AVRG	
Chlorobenzene	1.0860000	1.0297000	1.0297000	0.3	-5.18		AVRG	

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GCMS-F Calibration Date: 02/05/03 Time: 1545

Lab File ID: F9115 Init. Calib. Date(s): 02/05/03 02/05/03

Init. Calib. Times: 0948 1327

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Ethylbenzene	2.1430000	1.9624000	1.9624000	0.01	-8.43	20.00	AVRG	
Xylenes (total)	0.0000000	0.6789000	0.6789000	0.01	0.00		AVRG	<-
Bromoform	0.3390000	0.3366100	0.3366100	0.1	-0.70		AVRG	
1,1,2,2-Tetrachloroethane	51.160000	50.000000	1.0904000	0.3	2.32		LINR	
Dibromofluoromethane	0.6640000	0.6662200	0.6662200	0.01	0.33		AVRG	
1,2-Dichloroethane-D4	1.1600000	1.1347000	1.1347000	0.01	-2.18		AVRG	
Toluene-D8	1.2160000	1.2254000	1.2254000	0.01	0.77		AVRG	
P-Bromofluorobenzene	0.6060000	0.6153200	0.6153200	0.01	1.54		AVRG	

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: NAF KEY WEST CTO233
PO No:
Sample Date:
Received Date:
Extraction Date: 02/05/03
Analysis Date: 02/05/03
Report Date: 02/27/2003
Matrix: WATER
% Solids: NA

Lab ID: WG1669-1
Client ID: WG1669-BLANK
SDG: CTO233-4
Extracted by: JSS
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG1669
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	m+p-Xylenes	U	2	1.0	2	2	0.5
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.5
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
95-47-6	o-Xylene	U	1	1.0	1	1	0.5
74-87-3	Chloromethane	U	2	1.0	2	2	0.5
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.5
74-83-9	Bromomethane	U	2	1.0	2	2	0.5
75-00-3	Chloroethane	U	2	1.0	2	2	0.5
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.5
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.5
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.5
540-59-0	1,2-Dichloroethylene (total)	U	2	1.0	2	2	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.5
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.5
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.5
71-43-2	Benzene	U	1	1.0	1	1	0.5
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.5
79-01-6	Trichloroethene	U	1	1.0	1	1	0.5
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.5
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.5
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.5
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.5
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.5
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.5
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.5
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.5
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.5
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
75-25-2	Bromoform	U	1	1.0	1	1	0.5
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		103%				
17060-07-0	1,2-Dichloroethane-D4		101%				
2037-26-5	Toluene-D8		99%				
460-00-4	P-Bromofluorobenzene		97%				

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Lab File ID (Standard): F9115 Date Analyzed: 02/05/03

Instrument ID: GCMS-F Time Analyzed: 1545

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

		IS1(PFB) AREA #	IS1(PFB) RT #	IS2(DFB) AREA #	IS2(DFB) RT #	IS3(CBZ) AREA #	IS3(CBZ) RT #
12 HOUR STD		208318	9.96	338759	10.56	282511	13.62
UPPER LIMIT		416636	10.46	677518	11.06	565022	14.12
LOWER LIMIT		104159	9.46	169380	10.06	141256	13.12
	CLIENT SAMPLE ID	LAB SAMPLE ID					
01	WG1669-LCS	WG1669-2	219448	9.96	354084	10.56	296837	13.62
02	WG1669-BLANK	WG1669-1	190384	9.96	318145	10.55	267210	13.61
03	FC-MW-20R-0103	WT0233-2	296397	9.94	479000	10.54	392220	13.61
04	FC-MW-05-0103	WT0233-3	296173	9.94	476723	10.54	395963	13.61
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

IS1 (PFB) = Pentafluorobenzene
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-D5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Lab File ID (Standard): F9115 Date Analyzed: 02/05/03

Instrument ID: GCMS-F Time Analyzed: 1545

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

		IS4 (DCB) AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		134207	15.23				
UPPER LIMIT		268414	15.73				
LOWER LIMIT		67104	14.73				
	CLIENT SAMPLE ID	LAB SAMPLE ID					
01	WG1669-LCS	WG1669-2	141575	15.22				
02	WG1669-BLANK	WG1669-1	118722	15.22				
03	FC-MW-20R-0103	WT0233-2	168751	15.22				
04	FC-MW-05-0103	WT0233-3	171956	15.22				
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

IS4 (DCB) = 1,4-Dichlorobenzene-D4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Lab File ID: FB080 BFB Injection Date: 02/07/03

Instrument ID: GCMS-F BFB Injection Time: 0833

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24.9
75	30.0 - 60.0% of mass 95	54.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	5.8
173	Less than 2.0% of mass 174	1.2 (2.0)1
174	Greater than 50.0% of mass 95	62.0
175	4.0 - 9.0% of mass 174	5.2 (8.4)1
176	95.0 - 101.0% of mass 174	60.0 (96.8)1
177	5.0 - 9.0% of mass 176	3.6 (6.0)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD050F07B	F9155	02/07/03	1008
02	WG1670-LCS	WG1670-2	F9156	02/07/03	1130
03	WG1670-BLANK	WG1670-1	F9158	02/07/03	1250
04	FC-MW-06-0103	WT0233-1	F9165	02/07/03	1743
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GCMS-F Calibration Date: 02/07/03 Time: 1008

Lab File ID: F9155 Init. Calib. Date(s): 02/05/03 02/05/03

Init. Calib. Times: 0948 1327

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
m+p-Xylenes	0.7630000	0.7393500	0.7393500	0.01	-3.10		AVRG	
trans-1,2-Dichloroethene	0.5880000	0.6036300	0.6036300	0.01	2.66		AVRG	
cis-1,2-Dichloroethene	0.6330000	0.6046200	0.6046200	0.01	-4.48		AVRG	
o-Xylene	0.7230000	0.7124100	0.7124100	0.01	-1.46		AVRG	
Chloromethane	1.1290000	0.9603400	0.9603400	0.1	-14.94		AVRG	
Vinyl chloride	0.8980000	0.8222300	0.8222300	0.01	-8.44	20.00	AVRG	
Bromomethane	31.091000	50.000000	0.2784800	0.01	-37.82		2RDR	
Chloroethane	42.816000	50.000000	0.4558100	0.01	-14.37		2RDR	
1,1-Dichloroethene	0.5290000	0.4803200	0.4803200	0.1	-9.20	20.00	AVRG	
Methylene Chloride	49.519000	50.000000	0.6044300	0.01	-0.96		LINR	
Methyl tert-butyl ether	2.2520000	2.0501000	2.0501000	0.01	-8.96		AVRG	
1,1-Dichloroethane	1.4160000	1.3852000	1.3852000	0.01	-2.18		AVRG	
1,2-Dichloroethylene (total)	0.0000000	0.6041200	0.6041200	0.01	0.00		AVRG	<-
Chloroform	1.3550000	1.3304000	1.3304000	0.01	-1.82	20.00	AVRG	
Carbon Tetrachloride	0.6250000	0.5953800	0.5953800	0.01	-4.74		AVRG	
1,1,1-Trichloroethane	1.2230000	1.2219000	1.2219000	0.01	-0.09		AVRG	
Benzene	1.4640000	1.3981000	1.3981000	0.01	-4.50		AVRG	
1,2-Dichloroethane	0.8800000	0.8659400	0.8659400	0.01	-1.60		AVRG	
Trichloroethene	48.875000	50.000000	0.4117400	0.01	-2.25		LINR	
1,2-Dichloropropane	0.4260000	0.4132500	0.4132500	0.01	-2.99	20.00	AVRG	
Bromodichloromethane	0.6510000	0.6407100	0.6407100	0.01	-1.58		AVRG	
cis-1,3-dichloropropene	0.7280000	0.7068500	0.7068500	0.01	-2.90		AVRG	
2-Chloroethylvinylether	1.1e-002			0.01	-100.00		AVRG	<-
Toluene	0.8860000	0.8335500	0.8335500	0.01	-5.92	20.00	AVRG	
Tetrachloroethene	0.3060000	0.2817000	0.2817000	0.01	-7.94		AVRG	
trans-1,3-Dichloropropene	0.7170000	0.6572800	0.6572800	0.01	-8.33		AVRG	
1,1,2-Trichloroethane	0.2920000	0.2726800	0.2726800	0.01	-6.62		AVRG	
Dibromochloromethane	0.4940000	0.4979000	0.4979000	0.01	0.79		AVRG	
Chlorobenzene	1.0860000	1.0526000	1.0526000	0.3	-3.08		AVRG	

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GCMS-F Calibration Date: 02/07/03 Time: 1008

Lab File ID: F9155 Init. Calib. Date(s): 02/05/03 02/05/03

Init. Calib. Times: 0948 1327

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Ethylbenzene	2.1430000	2.0612000	2.0612000	0.01	-3.82	20.00	AVRG	
Xylenes (total)	0.0000000	0.7303700	0.7303700	0.01	0.00		AVRG	<-
Bromoform	0.3390000	0.3281300	0.3281300	0.1	-3.21		AVRG	
1,1,2,2-Tetrachloroethane	48.004000	50.000000	1.0243000	0.3	-3.99		LINR	
Dibromofluoromethane	0.6640000	0.6713000	0.6713000	0.01	1.10		AVRG	
1,2-Dichloroethane-D4	1.1600000	1.1080000	1.1080000	0.01	-4.48		AVRG	
Toluene-D8	1.2160000	1.1769000	1.1769000	0.01	-3.22		AVRG	
P-Bromofluorobenzene	0.6060000	0.5907000	0.5907000	0.01	-2.52		AVRG	

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: NAF KEY WEST CTO233
PO No:
Sample Date:
Received Date:
Extraction Date: 02/07/02
Analysis Date: 02/07/03
Report Date: 02/26/2003
Matrix: WATER
% Solids: NA

Lab ID: WG1670-1
Client ID: WG1670-BLANK
SDG: CTO233-4
Extracted by: JEY
Extraction Method: SW846 5030
Analyst: JEY
Analysis Method: SW846 8260B
Lab Prep Batch: WG1670
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	m+p-Xylenes	U	2	1.0	2	2	0.5
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.5
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
95-47-6	o-Xylene	U	1	1.0	1	1	0.5
74-87-3	Chloromethane	U	2	1.0	2	2	0.5
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.5
74-83-9	Bromomethane	U	2	1.0	2	2	0.5
75-00-3	Chloroethane	U	2	1.0	2	2	0.5
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.5
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.5
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.5
540-59-0	1,2-Dichloroethylene (total)	U	2	1.0	2	2	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.5
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.5
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.5
71-43-2	Benzene	U	1	1.0	1	1	0.5
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.5
79-01-6	Trichloroethene	U	1	1.0	1	1	0.5
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.5
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.5
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.5
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.5
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.5
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.5
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.5
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.5
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.5
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
75-25-2	Bromoform	U	1	1.0	1	1	0.5
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		99%				
17060-07-0	1,2-Dichloroethane-D4		98%				
2037-26-5	Toluene-D8		101%				
460-00-4	P-Bromofluorobenzene		97%				

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Lab File ID (Standard): F9155 Date Analyzed: 02/07/03

Instrument ID: GCMS-F Time Analyzed: 1008

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

			IS1(PFB)		IS2(DFB)		IS3(CBZ)	
			AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD			179471	9.94	297273	10.54	247238	13.61
UPPER LIMIT			358942	10.44	594546	11.04	494476	14.11
LOWER LIMIT			89736	9.44	148637	10.04	123619	13.11
	CLIENT SAMPLE ID	LAB SAMPLE ID						
01	WG1670-LCS	WG1670-2	176334	9.95	287334	10.55	245277	13.61
02	WG1670-BLANK	WG1670-1	164700	9.95	270285	10.55	226597	13.61
03	FC-MW-06-0103	WT0233-1	207195	9.95	335229	10.55	279875	13.62
04								
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

IS1 (PFB) = Pentafluorobenzene
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-D5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM VIII VOA

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Lab File ID (Standard): F9155 Date Analyzed: 02/07/03

Instrument ID: GCMS-F Time Analyzed: 1008

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

		IS4 (DCB) AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		119383	15.22				
UPPER LIMIT		238766	15.72				
LOWER LIMIT		59692	14.72				
	CLIENT SAMPLE ID	LAB SAMPLE ID					
01	WG1670-LCS	WG1670-2	118667	15.23				
02	WG1670-BLANK	WG1670-1	98618	15.23				
03	FC-MW-06-0103	WT0233-1	115569	15.23				
04								
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

IS4 (DCB) = 1,4-Dichlorobenzene-D4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM 8
VOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

GC Column: SPB 608 ID: 0.53 (mm) Init. Calib. Date(s): 02/10/03 02/10/03

Instrument ID: GC03

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 12.32

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	RT #
01	ICAL	0.01 PPM	02/10/03	1556	12.33	
02	ICAL	0.025 PPM	02/10/03	1614	12.33	
03	ICAL	0.05 PPM	02/10/03	1633	12.33	
04	ICAL	0.1 PPM	02/10/03	1651	12.32	
05	ICAL	0.25 PPM	02/10/03	1710	12.32	
06	ICAL	0.5 PPM	02/10/03	1729	12.32	
07	ICAL	1.0 PPM	02/10/03	1747	12.29	
08	WG1604-BLANK	WG1604-1	02/10/03	1806	12.31	
09	WG1604-LCS	WG1604-2	02/10/03	1824	12.31	
10	WG1604-LCSD	WG1604-3	02/10/03	1843	12.31	
11	FC-MW-06-010	WT0233-1	02/10/03	2224	12.31	
12	FC-MW-20R-01	WT0233-2	02/10/03	2242	12.27	
13	FC-MW-05-010	WT0233-3	02/10/03	2301	12.31	
14	CV	0.50PPM	02/10/03	2319	12.29	
15						
16						
17						
18						
19						
20						

QC LIMITS
TCX = Tetrachloro-M-Xylene (+/- 0.24 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
VOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

GC Column: RTX-CLP II ID: 0.53 (mm) Init. Calib. Date(s): 02/10/03 02/10/03

Instrument ID: GC03

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 11.60

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	RT #
01	ICAL	0.01 PPM	02/10/03	1556	11.72*	
02	ICAL	0.025 PPM	02/10/03	1614	11.63	
03	ICAL	0.05 PPM	02/10/03	1633	11.63	
04	ICAL	0.1 PPM	02/10/03	1651	11.61	
05	ICAL	0.25 PPM	02/10/03	1710	11.60	
06	ICAL	0.5 PPM	02/10/03	1729	11.60	
07	ICAL	1.0 PPM	02/10/03	1747	11.59	
08	WG1604-BLANK	WG1604-1	02/10/03	1806	11.60	
09	WG1604-LCS	WG1604-2	02/10/03	1824	11.59	
10	WG1604-LCSD	WG1604-3	02/10/03	1843	11.60	
11	FC-MW-06-010	WT0233-1	02/10/03	2224	11.59	
12	FC-MW-20R-01	WT0233-2	02/10/03	2242	11.49*	
13	FC-MW-05-010	WT0233-3	02/10/03	2301	11.59	
14	CV	0.50PPM	02/10/03	2319	11.57	
15						
16						
17						
18						
19						
20						

QC LIMITS
TCX = Tetrachloro-M-Xylene (+/- 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PEST

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GC03 Calibration Date(s): 02/10/03 02/10/03

Column: SPB 608 ID: 0.53 (mm) Calibration Time(s): 1556 1747

LAB FILE ID: RF0.01: 3TB1003 RF0.025: 3TB1004 RF0.05: 3TB1005
RF0.1: 3TB1006 RF0.25: 3TB1007 RF0.5: 3TB1008

COMPOUND	RF0.01	RF0.025	RF0.05	RF0.1	RF0.25	RF0.5	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2	MAX %RSD OR R^2	
1,2-Dibromoethane	566	1780	3059	4140	16781	30885	2ORDR	1e-002	1e-005	1e-010	0.99795	0.99000	
1,2,3-Trichloropropane	113		246	316	1903	3343	2ORDR	2e-002	1e-004	8e-009	0.99615	0.99000	
1,2-Dibromo-3-Chloropropane	855	2669	4856	6561	27188	49145	2ORDR	1e-002	8e-006	4e-011	0.99818	0.99000	<-
Tetrachloro-M-Xylene	2547	7579	13307	21552	25326	33733	2ORDR	-6e-003	4e-005	-7e-011	0.99804	0.99000	

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GC03 Calibration Date(s): 02/10/03 02/10/03

Column: SPB 608 ID: 0.53 (mm) Calibration Time(s): 1556 1747

RF1: 3TB1009

COMPOUND	RF1	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2	MAX %RSD OR R^2	
1,2-Dibromoethane	51670	2ORDR	1e-002	1e-005	1e-010	0.99795	0.99000	
1,2,3-Trichloropropane	5968	2ORDR	2e-002	1e-004	8e-009	0.99615	0.99000	<-
1,2-Dibromo-3-Chloropropane	85266	2ORDR	1e-002	8e-006	4e-011	0.99818	0.99000	
Tetrachloro-M-Xylene	73361	2ORDR	-6e-003	4e-005	-7e-011	0.99804	0.99000	

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GC03 Calibration Date(s): 02/10/03 02/10/03

Column: RTX-CLP II ID: 0.53 (mm) Calibration Time(s): 1556 1747

LAB FILE ID: RF0.01: 3TB2003 RF0.025: 3TB2004 RF0.05: 3TB2005
RF0.1: 3TB2006 RF0.25: 3TB2007 RF0.5: 3TB2008

								COEFFICENTS			%RSD	MAX %RSD
COMPOUND	RF0.01	RF0.025	RF0.05	RF0.1	RF0.25	RF0.5	CURVE	A0	A1	A2	OR R^2	OR R^2
1,2-Dibromoethane		107	258	213	1335	2990	2ORDR	2e-002	1e-004	7.e-009	0.99530	0.99000
1,2,3-Trichloropropane		26	34	49	228	443	2ORDR	2e-002	9e-004	4e-007	0.99754	0.99000
1,2-Dibromo-3-Chloropropane	53	145	255	353	1586	3004	2ORDR	1e-002	2e-004	4e-009	0.99812	0.99000
Tetrachloro-M-Xylene		488	858	1434	1729	2341	2ORDR	-1e-002	6.e-004	-2e-008	0.99862	0.99000

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GC03 Calibration Date(s): 02/10/03 02/10/03

Column: RTX-CLP II ID: 0.53 (mm) Calibration Time(s): 1556 1747

RF1: 3TB2009

			COEFFICENTS			%RSD	MAX %RSD
COMPOUND	RF1	CURVE	A0	A1	A2	OR R^2	OR R^2
1,2-Dibromoethane	5339	2ORDR	2e-002	1e-004	7.e-009	0.99530	0.99000
1,2,3-Trichloropropane	786	2ORDR	2e-002	9e-004	4e-007	0.99754	0.99000
1,2-Dibromo-3-Chloropropane	5683	2ORDR	1e-002	2e-004	4e-009	0.99812	0.99000
Tetrachloro-M-Xylene	5358	2ORDR	-1e-002	6.e-004	-2e-008	0.99862	0.99000

FORM VI VOA

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GC03 Calibration Date: 02/10/03 Time: 2319

Lab File ID: 3TB1027 Init. Calib. Date(s): 02/10/03 02/10/03

Init. Calib. Times: 1556 1747

GC Column: SPB 608 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.5000 or AMOUNT	CCAL RRF0.5000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
1,2-Dibromoethane	0.4629500	0.5000000	57088.000	0.01	-7.41	30.00	2RDR	
1,2,3-Trichloropropane	0.5557000	0.5000000	7394.0000	0.01	11.14	30.00	2RDR	
1,2-Dibromo-3-Chloropropane	0.5144600	0.5000000	100220.00	0.01	2.89	30.00	2RDR	
Tetrachloro-M-Xylene	1.6752000	1.2500000	37314.000	0.01	34.02	30.00	2RDR	<-

FORM VII PEST

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GC03 Calibration Date: 02/10/03 Time: 2319

Lab File ID: 3TB2027 Init. Calib. Date(s): 02/10/03 02/10/03

Init. Calib. Times: 1556 1747

GC Column: RTX-CLP II ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.5000 or AMOUNT	CCAL RRF0.5000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
1,2-Dibromoethane	0.4772600	0.5000000	5528.0000	0.01	-4.55	30.00	2RDR
1,2,3-Trichloropropane	0.4615300	0.5000000	814.00000	0.01	-7.69	30.00	2RDR
1,2-Dibromo-3-Chloropropane	0.5281600	0.5000000	6332.0000	0.01	5.63	30.00	2RDR
Tetrachloro-M-Xylene	1.5685000	1.2500000	2403.2000	0.01	25.48	30.00	2RDR

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 02/10/03
Received Date: 02/10/03
Extraction Date: 02/10/03
Analysis Date: 02/10/03
Report Date: 02/27/2003
Matrix: WATER
% Solids: NA

Lab ID: WG1604-1
Client ID: WG1604-Blank
SDG: CTO233-4
Extracted by: LRS
Extraction Method: EPA 504.1
Analyst: LRS
Analysis Method: EPA 504.1
Lab Prep Batch: WG1604
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		100%				

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

GC Column(1): SPB 608 ID: 0.53 (mm) GC Column(2): RTX-CLP IIID: 0.53 (mm)

	CLIENT SAMPLE ID	LAB SAMPLE ID	SMC1 TCX#	SMC2 TCX#			TOT OUT
01	WG1604-BLANK	WG1604-1	100	97			0
02	WG1604-LCS	WG1604-2	118	118			0
03	WG1604-LCSD	WG1604-3	116	113			0
04	FC-MW-06-0103	WT0233-1	70	63			0
05	FC-MW-20R-0103	WT0233-2	110	115			0
06	FC-MW-05-0103	WT0233-3	88	87			0
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							

SMC1 (TCX) = Tetrachloro-M-Xylene QC LIMITS (57-128)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Lab File ID: KD026 DFTPP Injection Date: 03/03/03

Instrument ID: GCMS-K DFTPP Injection Time: 1228

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	47.6
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Less than 100.0% of mass 198	59.7
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	43.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.0
275	10.0 - 30.0% of mass 198	24.9
365	1.0 - 100.0% of mass 198	3.6
441	0.0 - 100.0% of mass 443	9.6 (80.3)2
442	40.0 - 100.0% of mass 198	59.0
443	17.0 - 23.0% of mass 442	11.9 (20.2)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD014K0303	K3773	03/03/03	1425
02		SSTD028K0303	K3774	03/03/03	1511
03		SSTD112K0303	K3776	03/03/03	1643
04		SSTD042K0303	K3777	03/03/03	1729
05		SSTD070K0303	K3778	03/03/03	1815
06		SSTD140K0303	K3779	03/03/03	1900
07	WG1575-BLANK	WG1575-1	K3780	03/03/03	1945
08	S1SW-2-0103	WT0246-11	K3784	03/03/03	2245
09	S1MW-7-0103	WT0233-6	K3785	03/03/03	2330
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GCMS-K Calibration Date(s): 03/03/03 03/03/03

Column: DB5-MS ID: 0.25 (mm) Calibration Time(s): 1254 1900

LAB FILE ID: RF14: K3773 RF28: K3774 RF42: K3777
RF70: K3778 RF112: K3776 RF140: K3779

COMPOUND	RF14	RF28	RF42	RF70	RF112	RF140	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2	MAX %RSD OR R^2	
2-Picoline	1.072	1.106	1.224	1.013	1.476	0.973	AVRG		1.14417		16.104	15.000	<-
Pyridine	1.289	1.391	1.401	1.200	1.594	1.196	AVRG		1.34517		11.194	15.000	
N-Nitrosodimethylamine	0.846	0.946	0.888	0.871	1.207	0.758	AVRG		0.91949		16.718	15.000	<-
Aniline	1.640	1.761	1.709	1.645	1.707	1.530	AVRG		1.66517		4.823	15.000	
Phenol	1.301	1.526	1.417	1.282	1.363	1.218	AVRG		1.35148		8.108	30.000	
Bis(2-Chloroethyl)ether	1.090	1.134	1.045	0.935	1.062	0.968	AVRG		1.03885		7.209	15.000	
2-Chlorophenol	1.174	1.249	1.167	1.037	1.090	1.008	AVRG		1.12091		8.200	15.000	
1,3-Dichlorobenzene	1.321	1.480	1.315	1.266	1.308	1.214	AVRG		1.31726		6.776	15.000	
1,4-Dichlorobenzene	1.431	1.418	1.300	1.286	1.322	1.233	AVRG		1.33176		5.846	30.000	
1,2-Dichlorobenzene	1.285	1.417	1.187	1.149	1.181	1.095	AVRG		1.21896		9.440	15.000	
Benzyl alcohol	0.602	0.656	0.609	0.600	0.593	0.581	AVRG		0.60700		4.254	15.000	
Bis(2-Chloroisopropyl)ether	3.208	3.054	2.446	2.472	2.486	2.340	AVRG		2.66757		13.711	15.000	
2-Methylphenol	0.918	0.968	0.898	0.825	0.826	0.613	AVRG		0.84138		14.829	15.000	
Hexachloroethane	0.613	0.646	0.546	0.530	0.513	0.492	AVRG		0.55652		10.792	15.000	
N-Nitroso-di-n-propylamine	0.887	0.864	0.729	0.718	0.712	0.705	AVRG		0.76933		10.807	15.000	
3&4-Methylphenol	0.981	0.998	0.858	0.871	0.809	0.795	AVRG		0.88543		9.695	15.000	
Nitrobenzene	0.440	0.414	0.418	0.389	0.378	0.435	AVRG		0.41240		5.940	15.000	
Isophorone	0.730	0.694	0.660	0.625	0.636	0.630	AVRG		0.66267		6.293	15.000	
2-Nitrophenol	0.216	0.207	0.202	0.200	0.208	0.211	AVRG		0.20757		2.807	30.000	
2,4-Dimethyphenol	0.364	0.362	0.326	0.326	0.342	0.340	AVRG		0.34324		4.845	15.000	
Bis(2-Chloroethoxy)methane	0.614	0.594	0.510	0.488	0.518	0.499	AVRG		0.53713		9.925	15.000	
2,4-Dichlorophenol	0.299	0.305	0.283	0.277	0.279	0.287	AVRG		0.28826		3.940	30.000	
1,2,4-Trichlorobenzene	0.372	0.380	0.336	0.336	0.342	0.344	AVRG		0.35161		5.483	15.000	
Naphthalene	1.006	0.965	0.830	0.830	0.864	0.827	AVRG		0.88693		8.875	15.000	
4-Chloroaniline	0.413	0.400	0.379	0.374	0.384	0.369	AVRG		0.38655		4.381	15.000	
Hexachlorobutadiene	0.225	0.258	0.218	0.207	0.229	0.214	AVRG		0.22534		8.026	30.000	
4-Chloro-3-Methylphenol	0.288	0.264	0.271	0.270	0.286	0.283	AVRG		0.27695		3.520	30.000	
2-Methylnaphthalene	0.797	0.734	0.720	0.701	0.741	0.772	AVRG		0.74417		4.733	15.000	
Hexachlorocyclopentadiene	0.330	0.300	0.293	0.291	0.259	0.282	AVRG		0.29236		7.889	15.000	
2,4,6-Trichlorophenol	0.426	0.438	0.418	0.420	0.425	0.427	AVRG		0.42555		1.652	30.000	
2,4,5-Trichlorophenol	0.467	0.436	0.446	0.433	0.480	0.448	AVRG		0.45185		4.104	15.000	
2-Chloronaphthalene	2.239	2.217	2.000	2.078	2.088	2.068	AVRG		2.11494		4.393	15.000	
2-Nitroaniline	0.370	0.420	0.398	0.404	0.430	0.402	AVRG		0.40390		5.138	15.000	
Acenaphthylene	1.563	1.528	1.366	1.366	1.369	1.350	AVRG		1.42375		6.702	15.000	
Dimethyl Phthalate	1.338	1.280	1.190	1.170	1.205	1.139	AVRG		1.22002		6.096	15.000	
2,6-Dinitrotoluene	0.297	0.319	0.300	0.312	0.318	0.315	AVRG		0.31024		3.042	15.000	
Acenaphthene	1.141	1.094	0.972	0.972	0.967	0.931	AVRG		1.01306		8.280	30.000	
3-Nitroaniline	0.244	0.285	0.283	0.299	0.295	0.285	AVRG		0.28172		7.008	15.000	
2,4-Dinitrophenol	0.129	0.167	0.145	0.144	0.188	0.167	AVRG		0.15665		13.666	15.000	
Dibenzofuran	1.418	1.410	1.344	1.387	1.374	1.236	AVRG		1.36144		4.914	15.000	
4-Nitrophenol	0.138	0.118	0.098	0.119	0.102	0.090	AVRG		0.11084		15.853	15.000	<-
2,4-Dinitrotoluene	0.346	0.387	0.381	0.378	0.407	0.336	AVRG		0.37244		7.157	15.000	
Fluorene	92221	152940	214360	283110	635190	488370	LINR	-9e-002	1.03585		0.99244	0.99000	
Diethylphthalate	1.228	1.233	1.167	1.108	1.167	1.080	AVRG		1.16418		5.298	15.000	

FORM VI SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GCMS-K Calibration Date(s): 03/03/03 03/03/03

Column: DB5-MS ID: 0.25 (mm) Calibration Time(s): 1254 1900

LAB FILE ID: RF14: K3773 RF28: K3774 RF42: K3777
RF70: K3778 RF112: K3776 RF140: K3779

COMPOUND	RF14	RF28	RF42	RF70	RF112	RF140	CURVE	COEFFICIENTS A0	COEFFICIENTS A1	COEFFICIENTS A2	%RSD OR R^2	MAX %RSD OR R^2	
4-Chlorophenyl-phenylether	0.566	0.585	0.543	0.527	0.540	0.507	AVRG		0.54495		5.049	15.000	
4-Nitroaniline	0.265	0.250	0.276	0.267	0.292	0.267	AVRG		0.26954		5.161	15.000	
4,6-Dinitro-2-Methylphenol	0.175	0.182	0.151	0.147	0.204	0.171	AVRG		0.17159		12.212	15.000	
N-Nitrosodiphenylamine/DPA	0.497	0.443	0.444	0.428	0.484	0.412	AVRG		0.45119		7.267	30.000	
1,2-Diphenylhydrazine	1.095	0.972	0.956	0.891	0.983	0.882	AVRG		0.96314		8.014	15.000	
4-Bromophenyl-phenylether	0.292	0.248	0.226	0.235	0.254	0.236	AVRG		0.24853		9.459	15.000	
Hexachlorobenzene	0.368	0.347	0.329	0.319	0.336	0.302	AVRG		0.33352		6.882	15.000	
Pentachlorophenol	0.183	0.223	0.202	0.197	0.235	0.214	AVRG		0.20912		8.852	30.000	
Phenanthrene	1.010	0.989	0.916	0.877	0.910	0.860	AVRG		0.92708		6.486	15.000	
Anthracene	1.120	0.956	0.929	0.920	0.883	0.848	AVRG		0.94261		10.056	15.000	
Carbazole	0.764	0.835	0.809	0.868	0.835	0.759	AVRG		0.81176		5.335	15.000	
Di-n-butylphthalate	1.068	1.255	1.063	1.031	1.095	0.985	AVRG		1.08285		8.529	15.000	
Fluoranthene	0.876	1.055	0.878	0.861	0.876	0.718	AVRG		0.87723		12.193	30.000	
Benzidine	0.289	0.267	0.256	0.235	0.236	0.240	AVRG		0.25380		8.417	15.000	
Pyrene	1.615	1.216	1.333	1.338	1.290	1.341	AVRG		1.35527		10.034	15.000	
Butylbenzylphthalate	0.711	0.546	0.527	0.521	0.578	0.538	AVRG		0.57033		12.579	15.000	
Benzo(a)anthracene	1.067	0.944	0.885	0.891	0.957	0.886	AVRG		0.93809		7.499	15.000	
Chrysene	0.992	0.951	0.839	0.838	0.881	0.825	AVRG		0.88758		7.766	15.000	
3,3'-Dichlorobenzidine	0.390	0.387	0.356	0.356	0.381	0.362	AVRG		0.37203		4.280	15.000	
bis(2-Ethylhexyl)phthalate	0.954	0.703	0.670	0.655	0.752	0.678	AVRG		0.73532		15.308	15.000	<-
Di-n-octylphthalate	2.407	1.617	1.813	1.769	1.912	1.886	AVRG		1.90060		14.171	30.000	
Benzo(b)fluoranthene	1.590	1.295	1.314	1.289	1.369	1.318	AVRG		1.36247		8.433	15.000	
Benzo(k)fluoranthene	1.862	1.493	1.356	1.418	1.560	1.428	AVRG		1.51940		11.956	15.000	
Benzo(a)pyrene	1.408	1.215	1.186	1.215	1.298	1.222	AVRG		1.25718		6.585	30.000	
Indeno(1,2,3-cd)pyrene	1.260	0.994	1.073	1.030	1.184	1.113	AVRG		1.10916		8.967	15.000	
Dibenzo(a,h)anthracene	1.504	1.146	1.185	1.206	1.366	1.261	AVRG		1.27797		10.514	15.000	
Benzo(g,h,i)perylene	1.257	1.006	1.069	1.092	1.211	1.097	AVRG		1.12204		8.346	15.000	
N-Nitrosomethylethylamine	0.350	0.333	0.356	0.340	0.350	0.366	AVRG		0.34924		3.330	15.000	
Methyl Methanesulfonate	0.695	0.731	0.728	0.648	0.879	0.631	AVRG		0.71868		12.334	15.000	
N-Nitrosodiethylamine	0.450	0.468	0.462	0.454	0.439	0.421	AVRG		0.44913		3.773	15.000	
Ethyl Methanesulfonate	0.998	1.163	1.129	1.043	1.065	1.000	AVRG		1.06626		6.335	15.000	
N-Nitrosopyrrolidine	0.418	0.403	0.391	0.390	0.367	0.362	AVRG		0.38862		5.474	15.000	
N-Nitrosomorpholine	0.727	0.800	0.674	0.685	0.686	0.636	AVRG		0.70118		8.026	15.000	
o-Toluidine	0.519	0.513	0.486	0.491	0.498	0.526	AVRG		0.50562		3.170	15.000	
Acetophenone	0.503	0.499	0.497	0.460	0.465	0.497	AVRG		0.48692		3.902	15.000	
N-Nitrosopiperidine	0.172	0.168	0.162	0.162	0.158	0.154	AVRG		0.16281		4.061	15.000	
O,O,O-Triethylphosphorothioa	0.174	0.164	0.145	0.145	0.148	0.149	AVRG		0.15424		7.713	15.000	
2,6-Dichlorophenol	0.310	0.323	0.285	0.271	0.285	0.279	AVRG		0.29209		6.802	15.000	
Hexachloropropene	0.230	0.307	0.260	0.236	0.253	0.254	AVRG		0.25675		10.567	15.000	
A,A-Dimethylphenethylamine	1.100	0.975	0.956	0.912	1.039	1.049	AVRG		1.00497		6.911	15.000	
N-Nitroso-Di-N-Butylamine	0.206	0.189	0.185	0.171	0.200	0.208	AVRG		0.19328		7.240	15.000	
Isosafrole	0.235	0.210	0.210	0.208	0.232	0.228	AVRG		0.22040		5.709	15.000	
p-Phenylenediamine	0.235	0.259	0.050	0.044	0.195	0.046	AVRG		0.13827		73.902	15.000	<-
1,2,4,5-Tetrachlorobenzene	0.617	0.692	0.660	0.665	0.677	0.766	AVRG		0.67958		7.249	15.000	

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GCMS-K Calibration Date(s): 03/03/03 03/03/03

Column: DB5-MS ID: 0.25 (mm) Calibration Time(s): 1254 1900

LAB FILE ID: RF14: K3773 RF28: K3774 RF42: K3777
RF70: K3778 RF112: K3776 RF140: K3779

COMPOUND	RF14	RF28	RF42	RF70	RF112	RF140	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2	MAX %RSD OR R^2	
Safrole	0.223	0.248	0.207	0.216	0.216	0.211	AVRG		0.22022		6.682	15.000	
1,4-Naphthoquinone	0.422	0.447	0.391	0.387	0.337	0.315	AVRG		0.38327		12.956	15.000	
1,3-Dinitrobenzene	0.168	0.206	0.204	0.216	0.228	0.203	AVRG		0.20436		9.797	15.000	
Pentachlorobenzene	0.499	0.639	0.608	0.602	0.610	0.527	AVRG		0.58105		9.432	15.000	
2-Naphthylamine	0.752	0.806	0.756	0.727	0.726	0.666	AVRG		0.73884		6.239	15.000	
1-Naphthylamine	0.702	0.676	0.687	0.654	0.654	0.604	AVRG		0.66292		5.182	15.000	
2,3,4,6-Tetrachlorophenol	0.313	0.352	0.332	0.324	0.340	0.292	AVRG		0.32567		6.477	15.000	
0,0-diethyl-o-2-pyrazinylpho	0.208	0.204	0.193	0.192	0.212	0.182	AVRG		0.19853		5.868	15.000	
5-Nitro-O-Toluidine	1835	46889	65568	91283	209170	159940	2ORDR	0.32111	1.73394	1.01642	0.99269	0.99000	
Sulfotepp	0.170	0.153	0.146	0.136	0.143	0.136	AVRG		0.14740		8.453	15.000	
1,3,5-Trinitrobenzene	0.164	0.175	0.142	0.154	0.189	0.177	AVRG		0.16672		10.367	15.000	
Phorate	0.634	0.534	0.514	0.483	0.494	0.462	AVRG		0.52015		11.772	15.000	
Diallate	0.075	0.053	0.047	0.048	0.056	0.048	AVRG		5e-002		19.653	15.000	<-
Phenacetin	0.371	0.372	0.345	0.340	0.377	0.348	AVRG		0.35890		4.465	15.000	
Dimethoate	39133	67036	91219	102690	176360	175570	LINR	-0.3347	4.74535		0.99528	0.99000	
4-Aminobiphenyl	0.637	0.604	0.632	0.618	0.623	0.606	AVRG		0.62005		2.128	15.000	
Pentachloronitrobenzene	0.117	0.125	0.112	0.114	0.124	0.112	AVRG		0.11752		4.916	15.000	
Pronamide	0.306	0.317	0.294	0.279	0.286	0.289	AVRG		0.29503		4.675	15.000	
Disulfoton	0.394	0.365	0.343	0.314	0.328	0.316	AVRG		0.34333		9.106	15.000	
Methyl Parathion	0.220	0.262	0.247	0.226	0.198	0.182	AVRG		0.22227		13.368	15.000	
4-Nitroquinoline-1-Oxide	0.021	0.028	0.016	0.013	0.011	0.011	AVRG		2e-002		39.751	15.000	<-
Methapyrilene	0.269	0.294	0.214	0.198	0.215	0.177	AVRG		0.22806		19.610	15.000	<-
Isodrin	0.136	0.141	0.118	0.115	0.122	0.108	AVRG		0.12345		10.224	15.000	
Aramite	5942	12441	13359	17575	34810	28307	LINR	2e-004	14.6151		0.99647	0.99000	
p-Dimethylaminoazobenzene	0.200	0.202	0.212	0.215	0.220	0.225	AVRG		0.21244		4.725	15.000	
Chlorobenzilate	0.408	0.344	0.338	0.347	0.370	0.381	AVRG		0.36465		7.394	15.000	
Kepone	0.051	0.036	0.016	0.015	0.006	0.008	AVRG		2e-002		80.656	15.000	<-
Famphur	0.222	0.116	0.066	0.038	0.015	0.008	AVRG		8e-002		104.760	15.000	<-
3,3'-Dimethylbenzidine	0.442	0.425	0.381	0.351	0.359	0.362	AVRG		0.38666		9.801	15.000	
2-Acetylaminofluorene	0.378	0.404	0.361	0.370	0.415	0.390	AVRG		0.38619		5.367	15.000	
3-Methylcholanthrene	0.375	0.374	0.317	0.310	0.373	0.311	AVRG		0.34347		9.751	15.000	
7,12-Dimethylbenz(A)Anthrace	0.507	0.380	0.369	0.400	0.425	0.416	AVRG		0.41610		11.868	15.000	
Hexachlorophene							AVRG					0.000	<-
2-Fluorophenol	1.038	1.138	1.149	1.052	1.276	0.960	AVRG		1.10218		9.986	15.000	
Phenol-D6	1.377	1.426	1.320	1.186	1.267	1.152	AVRG		1.28800		8.304	15.000	
Nitrobenzene-D5	0.406	0.414	0.394	0.378	0.376	0.398	AVRG		0.39440		3.854	15.000	
2-Fluorobiphenyl	1.298	1.254	1.116	1.162	1.142	1.187	AVRG		1.19320		5.846	15.000	
2,4,6-Tribromophenol	0.235	0.229	0.255	0.238	0.213	0.254	AVRG		0.23726		6.733	15.000	
Terphenyl-D14	0.947	0.790	0.828	0.874	0.917	0.886	AVRG		0.87384		6.552	15.000	

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GCMS-K Calibration Date(s): 03/03/03 03/03/03

Column: DB5-MS ID: 0.25 (mm) Calibration Time(s): 1254 1900

Average %RSD test result.
Calculate Average %RSD: 10.46354294
Maximum Average %RSD: 15.00000000
Note: Passes Average %RSD Test.

FORM VI SV

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GCMS-K Calibration Date: 03/03/03 Time: 1729

Lab File ID: K3777 Init. Calib. Date(s): 03/03/03 03/03/03

Init. Calib. Times: 1254 1900

GC Column: DB5-MS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF42.000 or AMOUNT	CCAL RRF42.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
2-Picoline	1.1440000	1.2240000	1.2240000	0.01	6.99		AVRG
Pyridine	1.3450000	1.4010000	1.4010000	0.01	4.16		AVRG
N-Nitrosodimethylamine	0.9190000	0.8886000	0.8886000	0.01	-3.31		AVRG
Aniline	1.6650000	1.7090000	1.7090000	0.01	2.64		AVRG
Phenol	1.3510000	1.4172000	1.4172000	0.01	4.90	20.00	AVRG
Bis(2-Chloroethyl)ether	1.0390000	1.0449000	1.0449000	0.01	0.57		AVRG
2-Chlorophenol	1.1210000	1.1671000	1.1671000	0.01	4.11		AVRG
1,3-Dichlorobenzene	1.3170000	1.3146000	1.3146000	0.01	-0.18		AVRG
1,4-Dichlorobenzene	1.3320000	1.2999000	1.2999000	0.01	-2.41	20.00	AVRG
1,2-Dichlorobenzene	1.2190000	1.1867000	1.1867000	0.01	-2.65		AVRG
Benzyl alcohol	0.6070000	0.6090600	0.6090600	0.01	0.34		AVRG
Bis(2-Chloroisopropyl)ether	2.6680000	2.4460000	2.4460000	0.01	-8.32		AVRG
2-Methylphenol	0.8410000	0.8976000	0.8976000	0.01	6.73		AVRG
Hexachloroethane	0.5570000	0.5456000	0.5456000	0.01	-2.05		AVRG
N-Nitroso-di-n-propylamine	0.7690000	0.7291000	0.7291000	0.05	-5.19		AVRG
3&4-Methylphenol	0.8850000	0.8580000	0.8580000	0.01	-3.05		AVRG
Nitrobenzene	0.4120000	0.4184000	0.4184000	0.01	1.55		AVRG
Isophorone	0.6620000	0.6606000	0.6606000	0.01	-0.21		AVRG
2-Nitrophenol	0.2070000	0.2025000	0.2025000	0.01	-2.17	20.00	AVRG
2,4-Dimethyphenol	0.3430000	0.3261000	0.3261000	0.01	-4.93		AVRG
Bis(2-Chloroethoxy)methane	0.5370000	0.5095000	0.5095000	0.01	-5.12		AVRG
2,4-Dichlorophenol	0.2880000	0.2826000	0.2826000	0.01	-1.88	20.00	AVRG
1,2,4-Trichlorobenzene	0.3520000	0.3355000	0.3355000	0.01	-4.69		AVRG
Naphthalene	0.8870000	0.8297000	0.8297000	0.01	-6.46		AVRG
4-Chloroaniline	0.3860000	0.3794000	0.3794000	0.01	-1.71		AVRG
Hexachlorobutadiene	0.2250000	0.2178000	0.2178000	0.01	-3.20	20.00	AVRG
4-Chloro-3-Methylphenol	0.2770000	0.2708000	0.2708000	0.01	-2.24	20.00	AVRG
2-Methylnaphthalene	0.7440000	0.7197000	0.7197000	0.01	-3.27		AVRG
Hexachlorocyclopentadiene	0.2920000	0.2930000	0.2930000	0.05	0.34		AVRG

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GCMS-K Calibration Date: 03/03/03 Time: 1729

Lab File ID: K3777 Init. Calib. Date(s): 03/03/03 03/03/03

Init. Calib. Times: 1254 1900

GC Column: DB5-MS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF42.000 or AMOUNT	CCAL RRF42.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
2,4,6-Trichlorophenol	0.4260000	0.4179000	0.4179000	0.01	-1.90	20.00	AVRG
2,4,5-Trichlorophenol	0.4520000	0.4463000	0.4463000	0.01	-1.26		AVRG
2-Chloronaphthalene	2.1150000	2.0000000	2.0000000	0.01	-5.44		AVRG
2-Nitroaniline	0.4040000	0.3983000	0.3983000	0.01	-1.41		AVRG
Acenaphthylene	1.4240000	1.3660000	1.3660000	0.01	-4.07		AVRG
Dimethyl Phthalate	1.2200000	1.1900000	1.1900000	0.01	-2.46		AVRG
2,6-Dinitrotoluene	0.3100000	0.3006000	0.3006000	0.01	-3.03		AVRG
Acenaphthene	1.0130000	0.9725000	0.9725000	0.01	-4.00	20.00	AVRG
3-Nitroaniline	0.2820000	0.2832000	0.2832000	0.01	0.42		AVRG
2,4-Dinitrophenol	0.1570000	0.1446000	0.1446000	0.05	-7.90		AVRG
Dibenzofuran	1.3620000	1.3440000	1.3440000	0.01	-1.32		AVRG
4-Nitrophenol	0.1110000	9.78e-002	9.78e-002	0.05	-11.89		AVRG
2,4-Dinitrotoluene	0.3720000	0.3806000	0.3806000	0.01	2.31		AVRG
Fluorene	41.638000	42.000000	1.0360000	0.01	-0.86		LINR
Diethylphthalate	1.1640000	1.1670000	1.1670000	0.01	0.26		AVRG
4-Chlorophenyl-phenylether	0.5450000	0.5434000	0.5434000	0.01	-0.29		AVRG
4-Nitroaniline	0.2700000	0.2757000	0.2757000	0.01	2.11		AVRG
4,6-Dinitro-2-Methylphenol	0.1720000	0.1511000	0.1511000	0.01	-12.15		AVRG
N-Nitrosodiphenylamine/DPA	0.4510000	0.4436000	0.4436000	0.01	-1.64	20.00	AVRG
1,2-Diphenylhydrazine	0.9630000	0.9555000	0.9555000	0.01	-0.78		AVRG
4-Bromophenyl-phenylether	0.2480000	0.2263000	0.2263000	0.01	-8.75		AVRG
Hexachlorobenzene	0.3340000	0.3287000	0.3287000	0.01	-1.59		AVRG
Pentachlorophenol	0.2090000	0.2026000	0.2026000	0.01	-3.06	20.00	AVRG
Phenanthrene	0.9270000	0.9162000	0.9162000	0.01	-1.16		AVRG
Anthracene	0.9430000	0.9292000	0.9292000	0.01	-1.46		AVRG
Carbazole	0.8120000	0.8092000	0.8092000	0.01	-0.34		AVRG
Di-n-butylphthalate	1.0830000	1.0630000	1.0630000	0.01	-1.85		AVRG
Fluoranthene	0.8770000	0.8784000	0.8784000	0.01	0.16	20.00	AVRG
Benzidine	0.2540000	0.2562000	0.2562000	0.01	0.87		AVRG

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GCMS-K Calibration Date: 03/03/03 Time: 1729

Lab File ID: K3777 Init. Calib. Date(s): 03/03/03 03/03/03

Init. Calib. Times: 1254 1900

GC Column: DB5-MS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF42.000 or AMOUNT	CCAL RRF42.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Pyrene	1.3560000	1.3330000	1.3330000	0.01	-1.70		AVRG
Butylbenzylphthalate	0.5700000	0.5273000	0.5273000	0.01	-7.49		AVRG
Benzo(a)anthracene	0.9380000	0.8846000	0.8846000	0.01	-5.69		AVRG
Chrysene	0.8880000	0.8390000	0.8390000	0.01	-5.52		AVRG
3,3'-Dichlorobenzidine	0.3720000	0.3559000	0.3559000	0.01	-4.33		AVRG
bis(2-Ethylhexyl)phthalate	0.7350000	0.6697000	0.6697000	0.01	-8.88		AVRG
Di-n-octylphthalate	1.9010000	1.8128000	1.8128000	0.01	-4.64	20.00	AVRG
Benzo(b)fluoranthene	1.3620000	1.3141000	1.3141000	0.01	-3.52		AVRG
Benzo(k)fluoranthene	1.5200000	1.3560000	1.3560000	0.01	-10.79		AVRG
Benzo(a)pyrene	1.2570000	1.1859000	1.1859000	0.01	-5.66	20.00	AVRG
Indeno(1,2,3-cd)pyrene	1.1090000	1.0733000	1.0733000	0.01	-3.22		AVRG
Dibenzo(a,h)anthracene	1.2780000	1.1852000	1.1852000	0.01	-7.26		AVRG
Benzo(g,h,i)perylene	1.1220000	1.0693000	1.0693000	0.01	-4.70		AVRG
N-Nitrosomethylethylamine	0.3490000	0.3558000	0.3558000	0.01	1.95		AVRG
Methyl Methanesulfonate	0.7190000	0.7284800	0.7284800	0.01	1.32		AVRG
N-Nitrosodiethylamine	0.4490000	0.4621800	0.4621800	0.01	2.94		AVRG
Ethyl Methanesulfonate	1.0660000	1.1290000	1.1290000	0.01	5.91		AVRG
N-Nitrosopyrrolidine	0.3880000	0.3910000	0.3910000	0.01	0.77		AVRG
N-Nitrosomorpholine	0.7010000	0.6740000	0.6740000	0.01	-3.85		AVRG
o-Toluidine	0.5060000	0.4861000	0.4861000	0.01	-3.93		AVRG
Acetophenone	0.4870000	0.4970000	0.4970000	0.01	2.05		AVRG
N-Nitrosopiperidine	0.1630000	0.1623000	0.1623000	0.01	-0.43		AVRG
O,O,O-Triethylphosphorothioa	0.1540000	0.1454000	0.1454000	0.01	-5.58		AVRG
2,6-Dichlorophenol	0.2920000	0.2847000	0.2847000	0.01	-2.50		AVRG
Hexachloropropene	0.2570000	0.2598000	0.2598000	0.01	1.09		AVRG
A,A-Dimethylphenethylamine	1.0050000	0.9557000	0.9557000	0.01	-4.90		AVRG
N-Nitroso-Di-N-Butylamine	0.1930000	0.1854000	0.1854000	0.01	-3.94		AVRG
Isosafrole	0.2200000	0.2100000	0.2100000	0.01	-4.54		AVRG
p-Phenylenediamine	0.1380000	5.05e-002	5.05e-002	0.01	-63.41		AVRG

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GCMS-K Calibration Date: 03/03/03 Time: 1729

Lab File ID: K3777 Init. Calib. Date(s): 03/03/03 03/03/03

Init. Calib. Times: 1254 1900

GC Column: DB5-MS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF42.000 or AMOUNT	CCAL RRF42.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
1,2,4,5-Tetrachlorobenzene	0.6800000	0.6597000	0.6597000	0.01	-2.98		AVRG
Safrole	0.2200000	0.2073000	0.2073000	0.01	-5.77		AVRG
1,4-Naphthoquinone	0.3830000	0.3914000	0.3914000	0.01	2.19		AVRG
1,3-Dinitrobenzene	0.2040000	0.2045000	0.2045000	0.01	0.24		AVRG
Pentachlorobenzene	0.5810000	0.6085000	0.6085000	0.01	4.73		AVRG
2-Naphthylamine	0.7390000	0.7558000	0.7558000	0.01	2.27		AVRG
1-Naphthylamine	0.6630000	0.6874000	0.6874000	0.01	3.68		AVRG
2,3,4,6-Tetrachlorophenol	0.3260000	0.3318000	0.3318000	0.01	1.78		AVRG
0,0-diethyl-o-2-pyrazinylpho	0.1980000	0.1926000	0.1926000	0.01	-2.73		AVRG
5-Nitro-O-Toluidine	48.086000	42.000000	0.3168000	0.01	14.49		2RDR
Sulfotepp	0.1470000	0.1457000	0.1457000	0.01	-0.88		AVRG
1,3,5-Trinitrobenzene	0.1670000	0.1415000	0.1415000	0.01	-15.27		AVRG
Phorate	0.5200000	0.5140000	0.5140000	0.01	-1.15		AVRG
Diallate	5.4e-002	4.69e-002	4.69e-002	0.01	-13.15		AVRG
Phenacetin	0.3590000	0.3454000	0.3454000	0.01	-3.79		AVRG
Dimethoate	44.827000	42.000000	0.2998000	0.01	6.73		LINR
4-Aminobiphenyl	0.6200000	0.6317000	0.6317000	0.01	1.89		AVRG
Pentachloronitrobenzene	0.1170000	0.1125000	0.1125000	0.01	-3.85		AVRG
Pronamide	0.2950000	0.2936000	0.2936000	0.01	-0.47		AVRG
Disulfoton	0.3430000	0.3428000	0.3428000	0.01	-0.06		AVRG
Methyl Parathion	0.2220000	0.2468000	0.2468000	0.01	11.17		AVRG
4-Nitroquinoline-1-Oxide	1.7e-002	1.63e-002	1.63e-002	0.01	-4.12		AVRG
Methapyrilene	0.2280000	0.2145000	0.2145000	0.01	-5.92		AVRG
Isodrin	0.1230000	0.1177000	0.1177000	0.01	-4.31		AVRG
Aramite	37.802000	42.000000	6.37e-002	0.01	-10.0		LINR
p-Dimethylaminoazobenzene	0.2120000	0.2122000	0.2122000	0.01	0.09		AVRG
Chlorobenzilate	0.3650000	0.3377000	0.3377000	0.01	-7.48		AVRG
Kepone	2.2e-002	1.64e-002	1.64e-002	0.01	-25.45		AVRG
Famphur	7.8e-002	6.6e-002	6.6e-002	0.01	-15.38		AVRG

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GCMS-K Calibration Date: 03/03/03 Time: 1729

Lab File ID: K3777 Init. Calib. Date(s): 03/03/03 03/03/03

Init. Calib. Times: 1254 1900

GC Column: DB5-MS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF42.000 or AMOUNT	CCAL RRF42.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
3,3'-Dimethylbenzidine	0.3870000	0.3807000	0.3807000	0.01	-1.63		AVRG	
2-Acetylaminofluorene	0.3860000	0.3608000	0.3608000	0.01	-6.53		AVRG	
3-Methylcholanthrene	0.3430000	0.3173200	0.3173200	0.01	-7.49		AVRG	
7,12-Dimethylbenz(A)Anthrace	0.4160000	0.3688400	0.3688400	0.01	-11.34		AVRG	
Hexachlorophene	0.0000000			0.01	0.00		AVRG	<-
2-Fluorophenol	1.1020000	1.1492000	1.1492000	0.01	4.28		AVRG	
Phenol-D6	1.2880000	1.3197000	1.3197000	0.01	2.46		AVRG	
Nitrobenzene-D5	0.3940000	0.3942000	0.3942000	0.01	0.05		AVRG	
2-Fluorobiphenyl	1.1930000	1.1160000	1.1160000	0.01	-6.45		AVRG	
2,4,6-Tribromophenol	0.2370000	0.2552000	0.2552000	0.01	7.68		AVRG	
Terphenyl-D14	0.8740000	0.8285000	0.8285000	0.01	-5.20		AVRG	

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: NAF KEY WEST CTO233
PO No:
Sample Date: ~~02/04/03~~
Received Date: ~~02/04/03~~ 03.02.05
Extraction Date: 02/05/03
Analysis Date: 03/03/03
Report Date: 03/06/2003
Matrix: WATER
% Solids: NA

Lab ID: WG1575-1
Client ID: WG1575-Blank
SDG: CTO233-4
Extracted by: RH
Extraction Method: SW846 3520
Analyst: JJC
Analysis Method: SW846 8270C
Lab Prep Batch: WG1575
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
109-06-8	2-Picoline	U	10	1.0	10	10	1
110-86-1	Pyridine	U	50	1.0	50	50	0.8
62-75-9	N-Nitrosodimethylamine	U	20	1.0	20	20	2
62-53-3	Aniline	U	10	1.0	10	10	0.6
108-95-2	Phenol	U	10	1.0	10	10	0.8
111-44-4	Bis(2-Chloroethyl)ether	U	10	1.0	10	10	0.9
95-57-8	2-Chlorophenol	U	10	1.0	10	10	1.0
541-73-1	1,3-Dichlorobenzene	U	10	1.0	10	10	0.7
106-46-7	1,4-Dichlorobenzene	U	10	1.0	10	10	0.6
95-50-1	1,2-Dichlorobenzene	U	10	1.0	10	10	0.7
100-51-6	Benzyl alcohol	U	20	1.0	20	20	2
108-60-1	Bis(2-Chloroisopropyl)ether	U	10	1.0	10	10	3
95-48-7	2-Methylphenol	U	10	1.0	10	10	0.8
67-72-1	Hexachloroethane	U	10	1.0	10	10	0.6
621-64-7	N-Nitroso-di-n-propylamine	U	10	1.0	10	10	0.8
106-44-5	3&4-Methylphenol	U	10	1.0	10	10	2
98-95-3	Nitrobenzene	U	10	1.0	10	10	1
78-59-1	Isophorone	U	10	1.0	10	10	0.8
88-75-5	2-Nitrophenol	U	10	1.0	10	10	0.4
105-67-9	2,4-Dimethyphenol	U	10	1.0	10	10	0.7
111-91-1	Bis(2-Chloroethoxy)methane	U	10	1.0	10	10	1
120-83-2	2,4-Dichlorophenol	U	10	1.0	10	10	1
120-82-1	1,2,4-Trichlorobenzene	U	10	1.0	10	10	0.8
91-20-3	Naphthalene	U	10	1.0	10	10	0.6
106-47-8	4-Chloroaniline	U	10	1.0	10	10	0.5
87-68-3	Hexachlorobutadiene	U	10	1.0	10	10	0.3
59-50-7	4-Chloro-3-Methylphenol	U	10	1.0	10	10	0.8
91-57-6	2-Methylnaphthalene	U	10	1.0	10	10	0.6
77-47-4	Hexachlorocyclopentadiene	U	10	1.0	10	10	2
88-06-2	2,4,6-Trichlorophenol	U	10	1.0	10	10	0.6
95-95-4	2,4,5-Trichlorophenol	U	25	1.0	25	25	1
91-58-7	2-Chloronaphthalene	U	10	1.0	10	10	0.3
88-74-4	2-Nitroaniline	U	25	1.0	25	25	0.7
208-96-8	Acenaphthylene	U	10	1.0	10	10	0.7
131-11-3	Dimethyl Phthalate	U	10	1.0	10	10	0.9
606-20-2	2,6-Dinitrotoluene	U	10	1.0	10	10	0.5
83-32-9	Acenaphthene	U	10	1.0	10	10	0.5
99-09-2	3-Nitroaniline	U	25	1.0	25	25	0.9
51-28-5	2,4-Dinitrophenol	U	25	1.0	25	25	5
132-64-9	Dibenzofuran	U	10	1.0	10	10	0.7
100-02-7	4-Nitrophenol	U	25	1.0	25	25	3
121-14-2	2,4-Dinitrotoluene	U	10	1.0	10	10	0.9
86-73-7	Fluorene	U	10	1.0	10	10	0.8

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: NAF KEY WEST CTO233
PO No:
Sample Date: ~~02/04/03~~ 02.07.03
Received Date: ~~02/04/03~~
Extraction Date: 02/05/03
Analysis Date: 03/03/03
Report Date: 03/06/2003
Matrix: WATER
% Solids: NA

Lab ID: WG1575-1
Client ID: WG1575-Blank
SDG: CTO233-4
Extracted by: RH
Extraction Method: SW846 3520
Analyst: JJC
Analysis Method: SW846 8270C
Lab Prep Batch: WG1575
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
84-66-2	Diethylphthalate	U	10	1.0	10	10	1
7005-72-3	4-Chlorophenyl-phenylether	U	10	1.0	10	10	0.8
100-01-6	4-Nitroaniline	U	25	1.0	25	25	1
534-52-1	4,6-Dinitro-2-Methylphenol	U	25	1.0	25	25	3
86-30-6	N-Nitrosodiphenylamine/DPA	U	10	1.0	10	10	1.0
122-66-7	1,2-Diphenylhydrazine	U	20	1.0	20	20	4
101-55-3	4-Bromophenyl-phenylether	U	10	1.0	10	10	0.7
118-74-1	Hexachlorobenzene	U	10	1.0	10	10	0.8
87-86-5	Pentachlorophenol	U	25	1.0	25	25	2
85-01-8	Phenanthrene	U	10	1.0	10	10	0.8
120-12-7	Anthracene	U	10	1.0	10	10	0.7
86-74-8	Carbazole	U	10	1.0	10	10	0.9
84-74-2	Di-n-butylphthalate	U	10	1.0	10	10	2
206-44-0	Fluoranthene	U	10	1.0	10	10	0.8
92-87-5	Benzidine	U	50	1.0	50	50	6
129-00-0	Pyrene	U	10	1.0	10	10	1
85-68-7	Butylbenzylphthalate	U	10	1.0	10	10	1
56-55-3	Benzo(a)anthracene	U	10	1.0	10	10	1.0
218-01-9	Chrysene	U	10	1.0	10	10	1
91-94-1	3,3'-Dichlorobenzidine	U	10	1.0	10	10	0.8
117-81-7	bis(2-Ethylhexyl)phthalate	U	10	1.0	10	10	1
117-84-0	Di-n-octylphthalate	U	10	1.0	10	10	1
205-99-2	Benzo(b)fluoranthene	U	10	1.0	10	10	1
207-08-9	Benzo(k)fluoranthene	U	10	1.0	10	10	2
50-32-8	Benzo(a)pyrene	U	10	1.0	10	10	1
193-39-5	Indeno(1,2,3-cd)pyrene	U	10	1.0	10	10	1
53-70-3	Dibenzo(a,h)anthracene	U	10	1.0	10	10	1
191-24-2	Benzo(g,h,i)perylene	U	10	1.0	10	10	1
10595-95-6	N-Nitrosomethylethylamine	U	10	1.0	10	10	1.0
66-27-3	Methyl Methanesulfonate	U	20	1.0	20	20	1
55-18-5	N-Nitrosodiethylamine	U	20	1.0	20	20	0.7
62-50-0	Ethyl Methanesulfonate	U	10	1.0	10	10	1
930-55-2	N-Nitrosopyrrolidine	U	10	1.0	10	10	0.9
59-89-2	N-Nitrosomorpholine	U	10	1.0	10	10	1.0
95-53-4	o-Toluidine	U	10	1.0	10	10	0.7
98-86-2	Acetophenone	U	10	1.0	10	10	0.7
100-75-4	N-Nitrosopiperidine	U	10	1.0	10	10	0.6
126-68-1	O,O,O-Triethylphosphorothioat	U	20	1.0	20	20	0.8
87-65-0	2,6-Dichlorophenol	U	10	1.0	10	10	0.6
1888-71-7	Hexachloropropene	U	10	1.0	10	10	0.6
122-09-8	A,A-Dimethylphenethylamine	U	10	1.0	10	10	10
924-16-3	N-Nitroso-Di-N-Butylamine	U	10	1.0	10	10	0.7
120-58-1	Isosafrole	U	20	1.0	20	20	0.8

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: NAF KEY WEST CTO233
PO No:
Sample Date: ~~02/04/03~~ 02.04.03
Received Date: ~~02/04/03~~ 02.07.03
Extraction Date: 02/05/03
Analysis Date: 03/03/03
Report Date: 03/06/2003
Matrix: WATER
% Solids: NA

Lab ID: WG1575-1
Client ID: WG1575-Blank
SDG: CTO233-4
Extracted by: RH
Extraction Method: SW846 3520
Analyst: JJC
Analysis Method: SW846 8270C
Lab Prep Batch: WG1575
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	p-Phenylenediamine	U	10	1.0	10	10	2
95-94-3	1,2,4,5-Tetrachlorobenzene	U	10	1.0	10	10	0.6
94-59-7	Safrole	U	10	1.0	10	10	1
130-15-4	1,4-Naphthoquinone	U	10	1.0	10	10	1
99-65-0	1,3-Dinitrobenzene	U	10	1.0	10	10	10
608-93-5	Pentachlorobenzene	U	10	1.0	10	10	0.9
	2-Naphthylamine	U	10	1.0	10	10	1
134-32-7	1-Naphthylamine	U	10	1.0	10	10	1
58-90-2	2,3,4,6-Tetrachlorophenol	U	10	1.0	10	10	1.0
	0,0-diethyl-o-2-pyrazinylphos	U	20	1.0	20	20	1.0
99-55-8	5-Nitro-O-Toluidine	U	20	1.0	20	20	0.4
	Sulfotepp	U	10	1.0	10	10	2
99-35-4	1,3,5-Trinitrobenzene	U	10	1.0	10	10	2
298-02-2	Phorate	U	10	1.0	10	10	0.6
2303-16-4	Diallate	U	20	1.0	20	20	0.6
62-44-2	Phenacetin	U	10	1.0	10	10	1
60-51-5	Dimethoate	U	10	1.0	10	10	1
92-67-1	4-Aminobiphenyl	U	10	1.0	10	10	0.2
82-68-8	Pentachloronitrobenzene	U	10	1.0	10	10	0.9
23950-58-5	Pronamide	U	10	1.0	10	10	0.9
298-04-4	Disulfoton	U	10	1.0	10	10	0.6
298-00-0	Methyl Parathion	U	10	1.0	10	10	0.6
	4-Nitroquinoline-1-Oxide	U	20	1.0	20	20	20
91-80-5	Methapyrilene	U	10	1.0	10	10	4
465-73-6	Isodrin	U	20	1.0	20	20	1
140-57-8	Aramite	U	20	1.0	20	20	3
	p-Dimethylaminoazobenzene	U	20	1.0	20	20	0.9
510-15-6	Chlorobenzilate	U	20	1.0	20	20	1
143-50-0	Kepone	U	10	1.0	10	10	10
52-85-7	Famphur	U	10	1.0	10	10	2
119-93-7	3,3'-Dimethylbenzidine	U	20	1.0	20	20	2
53-96-3	2-Acetylaminofluorene	U	10	1.0	10	10	0.9
56-49-5	3-Methylcholanthrene	U	10	1.0	10	10	0.7
57-97-6	7,12-Dimethylbenz(A)Anthracen	U	10	1.0	10	10	2
70-30-4	Hexachlorophene	U	10	1.0	10	10	10
367-12-4	2-Fluorophenol		77%				
13127-88-3	Phenol-D6		96%				
4165-60-0	Nitrobenzene-D5		86%				
321-60-8	2-Fluorobiphenyl		89%				
118-79-6	2,4,6-Tribromophenol		99%				
1718-51-0	Terphenyl-D14		93%				

Katahdin Analytical Services

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: WG1575-1
Operator : JJC
Sample Location:
Sample Matrix: WATER
Analysis Type: SV
Inj Date: 03-MAR-2003 19:45

Client SDG: 021497
Client Smp ID: WG1575-Blank
Sample Date: 04-FEB-2003
Sample Point:
Date Received:04-FEB-2003 12:00
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM 2
WATER SEMIVOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

	CLIENT SAMPLE ID	LAB SAMPLE ID	S1 2FP#	S2 PHL#	S3 NBZ#	S4 FBP#	S5 TBP#	S6 TPH#	S7 #	S8 #	TOT OUT
01	WG1575-BLANK	WG1575-1	77	96	86	89	99	93			0
02	S1SW-2-0103	WT0246-11	15*	45	61	79	44	41			1
03	S1MW-7-0103	WT0233-6	46	68	80	79	78	76			0
04	0103-DUP-01	WT0233-7	71	83	68	81	120	82			0
05	S1SW-1-0103	WT0246-10	64	70	66	74	110	37			0
06	WG1575-LCS	WG1575-2	89	93	72	83	110	75			0
07	WG1575-LCSD	WG1575-3	80	72	81	73	68	97			0
08											
09											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											

	QC LIMITS
S1 (2FP) = 2-Fluorophenol	(20- 95)
S2 (PHL) = Phenol-D6	(10-115)
S3 (NBZ) = Nitrobenzene-D5	(36-117)
S4 (FBP) = 2-Fluorobiphenyl	(47-114)
S5 (TBP) = 2,4,6-Tribromophenol	(20-137)
S6 (TPH) = Terphenyl-D14	(35-126)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Lab File ID (Standard): K3777 Date Analyzed: 03/03/03

Instrument ID: GCMS-K Time Analyzed: 1729

		IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
12 HOUR STD		137925		6.20		385544		9.02		197087		13.02	
UPPER LIMIT		275850		6.70		771088		9.52		394174		13.52	
LOWER LIMIT		68963		5.70		192772		8.52		98544		12.52	
	CLIENT SAMPLE ID	LAB SAMPLE ID											
01	WG1575-BLANK	WG1575-1		156055	6.18		482533		9.00		277224		13.01
02	S1SW-2-0103	WT0246-11		101674	6.19		285064		9.00		139850		13.00
03	S1MW-7-0103	WT0233-6		97502	6.19		279882		9.00		157173		13.00
04													
05													
06													
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													

IS1 (DCB) = 1,4-Dichlorobenzene-D4
IS2 (NPT) = Naphthalene-D8
IS3 (ANT) = Acenaphthene-D10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-1

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Lab File ID (Standard): K3777 Date Analyzed: 03/03/03

Instrument ID: GCMS-K Time Analyzed: 1729

		IS4(PHN) AREA	#	RT	#	IS5(CRY) AREA	#	RT	#	IS6(PRY) AREA	#	RT	#
12 HOUR STD		289743		16.42		199646		22.56		113870		25.61	
UPPER LIMIT		579486		16.92		399292		23.06		227740		26.11	
LOWER LIMIT		144872		15.92		99823		22.06		56935		25.11	
	CLIENT SAMPLE ID	LAB SAMPLE ID											
01	WG1575-BLANK	WG1575-1		364792	16.40		186551	22.55		114057		25.61	
02	S1SW-2-0103	WT0246-11		182894	16.40		156980	22.56		85681		25.60	
03	S1MW-7-0103	WT0233-6		210867	16.40		138396	22.54		83833		25.60	
04													
05													
06													
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													

IS4 (PHN) = Phenanthrene-D10
IS5 (CRY) = Chrysene-D12
IS6 (PRY) = Perylene-D12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Lab File ID: KD027 DFTPP Injection Date: 03/04/03

Instrument ID: GCMS-K DFTPP Injection Time: 1123

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	52.1
68	Less than 2.0% of mass 69	0.6 (1.0)1
69	Less than 100.0% of mass 198	60.3
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	40.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.4
275	10.0 - 30.0% of mass 198	28.6
365	1.0 - 100.0% of mass 198	4.3
441	0.0 - 100.0% of mass 443	13.0 (94.4)2
442	40.0 - 100.0% of mass 198	71.9
443	17.0 - 23.0% of mass 442	13.7 (19.1)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD042K0304	K3789	03/04/03	1412
02	0103-DUP-01	WT0233-7	K3793	03/04/03	1714
03	S1SW-1-0103	WT0246-10	K3794	03/04/03	1759
04	WG1575-LCS	WG1575-2	K3795	03/04/03	1845
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GCMS-K Calibration Date: 03/04/03 Time: 1412

Lab File ID: K3789 Init. Calib. Date(s): 03/03/03 03/03/03

Init. Calib. Times: 1254 1900

GC Column: DB5-MS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF42.000 or AMOUNT	CCAL RRF42.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
2-Picoline	1.1440000	0.7737500	0.7737500	0.01	-32.36		AVRG
Pyridine	1.3450000	0.7810900	0.7810900	0.01	-41.93		AVRG
N-Nitrosodimethylamine	0.9190000	0.5329200	0.5329200	0.01	-42.01		AVRG
Aniline	1.6650000	1.4293000	1.4293000	0.01	-14.16		AVRG
Phenol	1.3510000	1.2640000	1.2640000	0.01	-6.44	20.00	AVRG
Bis(2-Chloroethyl)ether	1.0390000	0.9526800	0.9526800	0.01	-8.31		AVRG
2-Chlorophenol	1.1210000	1.0062000	1.0062000	0.01	-10.24		AVRG
1,3-Dichlorobenzene	1.3170000	1.2209000	1.2209000	0.01	-7.30		AVRG
1,4-Dichlorobenzene	1.3320000	1.2388000	1.2388000	0.01	-7.00	20.00	AVRG
1,2-Dichlorobenzene	1.2190000	1.1588000	1.1588000	0.01	-4.94		AVRG
Benzyl alcohol	0.6070000	0.5602600	0.5602600	0.01	-7.70		AVRG
Bis(2-Chloroisopropyl)ether	2.6680000	2.6722000	2.6722000	0.01	0.16		AVRG
2-Methylphenol	0.8410000	0.7640600	0.7640600	0.01	-9.15		AVRG
Hexachloroethane	0.5570000	0.5426000	0.5426000	0.01	-2.58		AVRG
N-Nitroso-di-n-propylamine	0.7690000	0.6985800	0.6985800	0.05	-9.16		AVRG
3&4-Methylphenol	0.8850000	0.8271700	0.8271700	0.01	-6.53		AVRG
Nitrobenzene	0.4120000	0.3565800	0.3565800	0.01	-13.45		AVRG
Isophorone	0.6620000	0.6207900	0.6207900	0.01	-6.22		AVRG
2-Nitrophenol	0.2070000	0.1781200	0.1781200	0.01	-13.95	20.00	AVRG
2,4-Dimethyphenol	0.3430000	0.3171100	0.3171100	0.01	-7.55		AVRG
Bis(2-Chloroethoxy)methane	0.5370000	0.4889800	0.4889800	0.01	-8.94		AVRG
2,4-Dichlorophenol	0.2880000	0.2772200	0.2772200	0.01	-3.74	20.00	AVRG
1,2,4-Trichlorobenzene	0.3520000	0.3393100	0.3393100	0.01	-3.60		AVRG
Naphthalene	0.8870000	0.7974300	0.7974300	0.01	-10.10		AVRG
4-Chloroaniline	0.3860000	0.3472600	0.3472600	0.01	-10.04		AVRG
Hexachlorobutadiene	0.2250000	0.2286100	0.2286100	0.01	1.60	20.00	AVRG
4-Chloro-3-Methylphenol	0.2770000	0.2561000	0.2561000	0.01	-7.54	20.00	AVRG
2-Methylnaphthalene	0.7440000	0.7004600	0.7004600	0.01	-5.85		AVRG
Hexachlorocyclopentadiene	0.2920000	0.1696600	0.1696600	0.05	-41.90		AVRG

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GCMS-K Calibration Date: 03/04/03 Time: 1412

Lab File ID: K3789 Init. Calib. Date(s): 03/03/03 03/03/03

Init. Calib. Times: 1254 1900

GC Column: DB5-MS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF42.000 or AMOUNT	CCAL RRF42.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
2,4,6-Trichlorophenol	0.4260000	0.4029200	0.4029200	0.01	-5.42	20.00	AVRG
2,4,5-Trichlorophenol	0.4520000	0.4336100	0.4336100	0.01	-4.07		AVRG
2-Chloronaphthalene	2.1150000	1.9506000	1.9506000	0.01	-7.77		AVRG
2-Nitroaniline	0.4040000	0.3757600	0.3757600	0.01	-6.99		AVRG
Acenaphthylene	1.4240000	1.3644000	1.3644000	0.01	-4.18		AVRG
Dimethyl Phthalate	1.2200000	1.1921000	1.1921000	0.01	-2.29		AVRG
2,6-Dinitrotoluene	0.3100000	0.2941700	0.2941700	0.01	-5.11		AVRG
Acenaphthene	1.0130000	1.0035000	1.0035000	0.01	-0.94	20.00	AVRG
3-Nitroaniline	0.2820000	0.2611800	0.2611800	0.01	-7.38		AVRG
2,4-Dinitrophenol	0.1570000	0.1537800	0.1537800	0.05	-2.05		AVRG
Dibenzofuran	1.3620000	1.3846000	1.3846000	0.01	1.66		AVRG
4-Nitrophenol	0.1110000	9.6e-002	9.6e-002	0.05	-13.51		AVRG
2,4-Dinitrotoluene	0.3720000	0.3770800	0.3770800	0.01	1.36		AVRG
Fluorene	42.532000	42.000000	1.0564000	0.01	1.27		LINR
Diethylphthalate	1.1640000	1.2122000	1.2122000	0.01	4.14		AVRG
4-Chlorophenyl-phenylether	0.5450000	0.5732500	0.5732500	0.01	5.18		AVRG
4-Nitroaniline	0.2700000	0.2703900	0.2703900	0.01	0.14		AVRG
4,6-Dinitro-2-Methylphenol	0.1720000	0.1636200	0.1636200	0.01	-4.87		AVRG
N-Nitrosodiphenylamine/DPA	0.4510000	0.4068300	0.4068300	0.01	-9.79	20.00	AVRG
1,2-Diphenylhydrazine	0.9630000	0.8820000	0.8820000	0.01	-8.41		AVRG
4-Bromophenyl-phenylether	0.2480000	0.2394500	0.2394500	0.01	-3.45		AVRG
Hexachlorobenzene	0.3340000	0.3339200	0.3339200	0.01	-0.02		AVRG
Pentachlorophenol	0.2090000	0.2286800	0.2286800	0.01	9.42	20.00	AVRG
Phenanthrene	0.9270000	0.8799600	0.8799600	0.01	-5.07		AVRG
Anthracene	0.9430000	0.9130800	0.9130800	0.01	-3.17		AVRG
Carbazole	0.8120000	0.8458200	0.8458200	0.01	4.16		AVRG
Di-n-butylphthalate	1.0830000	1.1849000	1.1849000	0.01	9.41		AVRG
Fluoranthene	0.8770000	1.0322000	1.0322000	0.01	17.70	20.00	AVRG
Benzidine	0.2540000	0.1957400	0.1957400	0.01	-22.94		AVRG

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GCMS-K Calibration Date: 03/04/03 Time: 1412

Lab File ID: K3789 Init. Calib. Date(s): 03/03/03 03/03/03

Init. Calib. Times: 1254 1900

GC Column: DB5-MS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF42.000 or AMOUNT	CCAL RRF42.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Pyrene	1.3560000	1.0863000	1.0863000	0.01	-19.89		AVRG
Butylbenzylphthalate	0.5700000	0.4911300	0.4911300	0.01	-13.84		AVRG
Benzo(a)anthracene	0.9380000	0.8461900	0.8461900	0.01	-9.79		AVRG
Chrysene	0.8880000	0.8557000	0.8557000	0.01	-3.64		AVRG
3,3'-Dichlorobenzidine	0.3720000	0.3567100	0.3567100	0.01	-4.11		AVRG
bis(2-Ethylhexyl)phthalate	0.7350000	0.6636800	0.6636800	0.01	-9.70		AVRG
Di-n-octylphthalate	1.9010000	1.5357000	1.5357000	0.01	-19.22	20.00	AVRG
Benzo(b)fluoranthene	1.3620000	1.2559000	1.2559000	0.01	-7.79		AVRG
Benzo(k)fluoranthene	1.5200000	1.4089000	1.4089000	0.01	-7.31		AVRG
Benzo(a)pyrene	1.2570000	1.1554000	1.1554000	0.01	-8.08	20.00	AVRG
Indeno(1,2,3-cd)pyrene	1.1090000	1.0825000	1.0825000	0.01	-2.39		AVRG
Dibenzo(a,h)anthracene	1.2780000	1.1820000	1.1820000	0.01	-7.51		AVRG
Benzo(g,h,i)perylene	1.1220000	1.0631000	1.0631000	0.01	-5.25		AVRG
N-Nitrosomethylethylamine	0.3490000	0.3341700	0.3341700	0.01	-4.25		AVRG
Methyl Methanesulfonate	0.7190000	0.6239800	0.6239800	0.01	-13.22		AVRG
N-Nitrosodiethylamine	0.4490000	0.3696800	0.3696800	0.01	-17.67		AVRG
Ethyl Methanesulfonate	1.0660000	0.9520200	0.9520200	0.01	-10.69		AVRG
N-Nitrosopyrrolidine	0.3880000	0.3385700	0.3385700	0.01	-12.74		AVRG
N-Nitrosomorpholine	0.7010000	0.6481800	0.6481800	0.01	-7.54		AVRG
o-Toluidine	0.5060000	0.4333900	0.4333900	0.01	-14.35		AVRG
Acetophenone	0.4870000	0.4232200	0.4232200	0.01	-13.10		AVRG
N-Nitrosopiperidine	0.1630000	0.1397900	0.1397900	0.01	-14.24		AVRG
O,O,O-Triethylphosphorothioa	0.1540000	0.1462900	0.1462900	0.01	-5.01		AVRG
2,6-Dichlorophenol	0.2920000	0.2731200	0.2731200	0.01	-6.46		AVRG
Hexachloropropene	0.2570000	0.2537500	0.2537500	0.01	-1.26		AVRG
A,A-Dimethylphenethylamine	1.0050000	0.9364900	0.9364900	0.01	-6.82		AVRG
N-Nitroso-Di-N-Butylamine	0.1930000	0.1719900	0.1719900	0.01	-10.89		AVRG
Isosafrole	0.2200000	0.2028100	0.2028100	0.01	-7.81		AVRG
p-Phenylenediamine	0.1380000	0.1545400	0.1545400	0.01	11.99		AVRG

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GCMS-K Calibration Date: 03/04/03 Time: 1412

Lab File ID: K3789 Init. Calib. Date(s): 03/03/03 03/03/03

Init. Calib. Times: 1254 1900

GC Column: DB5-MS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF42.000 or AMOUNT	CCAL RRF42.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
1,2,4,5-Tetrachlorobenzene	0.6800000	0.6752800	0.6752800	0.01	-0.69		AVRG
Safrole	0.2200000	0.2154300	0.2154300	0.01	-2.08		AVRG
1,4-Naphthoquinone	0.3830000	0.4165700	0.4165700	0.01	8.76		AVRG
1,3-Dinitrobenzene	0.2040000	0.1834400	0.1834400	0.01	-10.08		AVRG
Pentachlorobenzene	0.5810000	0.6508600	0.6508600	0.01	12.02		AVRG
2-Naphthylamine	0.7390000	0.6635300	0.6635300	0.01	-10.21		AVRG
1-Naphthylamine	0.6630000	0.5909700	0.5909700	0.01	-10.86		AVRG
2,3,4,6-Tetrachlorophenol	0.3260000	0.3531400	0.3531400	0.01	8.32		AVRG
0,0-diethyl-o-2-pyrazinylpho	0.1980000	0.2162800	0.2162800	0.01	9.23		AVRG
5-Nitro-O-Toluidine	40.460000	42.000000	0.3172600	0.01	-3.67		2RDR
Sulfotepp	0.1470000	0.1378800	0.1378800	0.01	-6.20		AVRG
1,3,5-Trinitrobenzene	0.1670000	0.1430600	0.1430600	0.01	-14.34		AVRG
Phorate	0.5200000	0.4772100	0.4772100	0.01	-8.23		AVRG
Diallate	5.4e-002	4.91e-002	4.91e-002	0.01	-9.07		AVRG
Phenacetin	0.3590000	0.3218600	0.3218600	0.01	-10.34		AVRG
Dimethoate	45.123000	42.000000	0.2935700	0.01	7.44		LINR
4-Aminobiphenyl	0.6200000	0.5877900	0.5877900	0.01	-5.20		AVRG
Pentachloronitrobenzene	0.1170000	0.1223800	0.1223800	0.01	4.60		AVRG
Pronamide	0.2950000	0.2876500	0.2876500	0.01	-2.49		AVRG
Disulfoton	0.3430000	0.3413600	0.3413600	0.01	-0.48		AVRG
Methyl Parathion	0.2220000	0.2457600	0.2457600	0.01	10.70		AVRG
4-Nitroquinoline-1-Oxide	1.7e-002	2.73e-002	2.73e-002	0.01	60.59		AVRG
Methapyrilene	0.2280000	0.2783900	0.2783900	0.01	22.10		AVRG
Isodrin	0.1230000	0.1513800	0.1513800	0.01	23.07		AVRG
Aramite	36.717000	42.000000	5.98e-002	0.01	-12.58		LINR
p-Dimethylaminoazobenzene	0.2120000	0.1810600	0.1810600	0.01	-14.59		AVRG
Chlorobenzilate	0.3650000	0.3228600	0.3228600	0.01	-11.54		AVRG
Kepone	2.2e-002	4.22e-002	4.22e-002	0.01	91.82		AVRG
Famphur	7.8e-002	0.1516000	0.1516000	0.01	94.36		AVRG

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GCMS-K Calibration Date: 03/04/03 Time: 1412

Lab File ID: K3789 Init. Calib. Date(s): 03/03/03 03/03/03

Init. Calib. Times: 1254 1900

GC Column: DB5-MS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF42.000 or AMOUNT	CCAL RRF42.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
3,3'-Dimethylbenzidine	0.3870000	0.3448300	0.3448300	0.01	-10.90		AVRG	
2-Acetylaminofluorene	0.3860000	0.3685700	0.3685700	0.01	-4.52		AVRG	
3-Methylcholanthrene	0.3430000	0.3789200	0.3789200	0.01	10.47		AVRG	
7,12-Dimethylbenz(A)Anthrace	0.4160000	0.3480900	0.3480900	0.01	-16.32		AVRG	
Hexachlorophene	0.0000000			0.01	0.00		AVRG	<-
2-Fluorophenol	1.1020000	0.9812000	0.9812000	0.01	-10.96		AVRG	
Phenol-D6	1.2880000	1.1898000	1.1898000	0.01	-7.62		AVRG	
Nitrobenzene-D5	0.3940000	0.3395300	0.3395300	0.01	-13.82		AVRG	
2-Fluorobiphenyl	1.1930000	1.1254000	1.1254000	0.01	-5.67		AVRG	
2,4,6-Tribromophenol	0.2370000	0.2859800	0.2859800	0.01	20.67		AVRG	
Terphenyl-D14	0.8740000	0.7425500	0.7425500	0.01	-15.04		AVRG	

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Lab File ID (Standard): K3789 Date Analyzed: 03/04/03

Instrument ID: GCMS-K Time Analyzed: 1412

		IS1(DCB) AREA	#	RT	#	IS2(NPT) AREA	#	RT	#	IS3(ANT) AREA	#	RT	#
12 HOUR STD		147037		6.15		443304		8.96		230182		12.96	
UPPER LIMIT		294074		6.65		886608		9.46		460364		13.46	
LOWER LIMIT		73519		5.65		221652		8.46		115091		12.46	
	CLIENT SAMPLE ID	LAB SAMPLE ID											
01	0103-DUP-01	WT0233-7		74285		6.15		264747		8.97		152728		12.95	
02	S1SW-1-0103	WT0246-10		77417		6.15		246288		8.96		149903		12.96	
03	WG1575-LCS	WG1575-2		122214		6.16		544373		8.98		344438		12.97	
04															
05															
06															
07															
08															
09															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															

IS1 (DCB) = 1,4-Dichlorobenzene-D4
IS2 (NPT) = Naphthalene-D8
IS3 (ANT) = Acenaphthene-D10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-1

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Lab File ID (Standard): K3789 Date Analyzed: 03/04/03

Instrument ID: GCMS-K Time Analyzed: 1412

		IS4(PHN) AREA #	IS4(PHN) RT #	IS5(CRY) AREA #	IS5(CRY) RT #	IS6(PRY) AREA #	IS6(PRY) RT #
12 HOUR STD		375068	16.35	363415	22.49	235499	25.53
UPPER LIMIT		750136	16.85	726830	22.99	470998	26.03
LOWER LIMIT		187534	15.85	181708	21.99	117750	25.03
	CLIENT SAMPLE ID	LAB SAMPLE ID					
01	0103-DUP-01	WT0233-7	244313	16.34	209788	22.48	139400	25.53
02	S1SW-1-0103	WT0246-10	245479	16.34	198791	22.48	121573	25.54
03	WG1575-LCS	WG1575-2	507530	16.37	491437	22.51	343180	25.55
04								
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

IS4 (PHN) = Phenanthrene-D10
IS5 (CRY) = Chrysene-D12
IS6 (PRY) = Perylene-D12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Lab File ID: KD028 DFTPP Injection Date: 03/05/03

Instrument ID: GCMS-K DFTPP Injection Time: 1055

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	57.3
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Less than 100.0% of mass 198	72.4
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	44.3
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.1
275	10.0 - 30.0% of mass 198	20.3
365	1.0 - 100.0% of mass 198	1.7
441	0.0 - 100.0% of mass 443	8.7 (70.2)2
442	40.0 - 100.0% of mass 198	55.2
443	17.0 - 23.0% of mass 442	12.3 (22.4)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD042K0305	K3801	03/05/03	1119
02	WG1575-LCSD	WG1575-3	K3807	03/05/03	1601
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GCMS-K Calibration Date: 03/05/03 Time: 1119

Lab File ID: K3801 Init. Calib. Date(s): 03/03/03 03/03/03

Init. Calib. Times: 1254 1900

GC Column: DB5-MS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF42.000 or AMOUNT	CCAL RRF42.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
2-Picoline	1.1440000	1.0134000	1.0134000	0.01	-11.42		AVRG
Pyridine	1.3450000	1.1839000	1.1839000	0.01	-11.98		AVRG
N-Nitrosodimethylamine	0.9190000	0.7956100	0.7956100	0.01	-13.43		AVRG
Aniline	1.6650000	1.6101000	1.6101000	0.01	-3.30		AVRG
Phenol	1.3510000	1.3049000	1.3049000	0.01	-3.41	20.00	AVRG
Bis(2-Chloroethyl)ether	1.0390000	0.9776200	0.9776200	0.01	-5.91		AVRG
2-Chlorophenol	1.1210000	1.0885000	1.0885000	0.01	-2.90		AVRG
1,3-Dichlorobenzene	1.3170000	1.2527000	1.2527000	0.01	-4.88		AVRG
1,4-Dichlorobenzene	1.3320000	1.3262000	1.3262000	0.01	-0.44	20.00	AVRG
1,2-Dichlorobenzene	1.2190000	1.2516000	1.2516000	0.01	2.67		AVRG
Benzyl alcohol	0.6070000	0.6052200	0.6052200	0.01	-0.29		AVRG
Bis(2-Chloroisopropyl)ether	2.6680000	3.6947000	3.6947000	0.01	38.48		AVRG
2-Methylphenol	0.8410000	1.0420000	1.0420000	0.01	23.90		AVRG
Hexachloroethane	0.5570000	0.7255000	0.7255000	0.01	30.25		AVRG
N-Nitroso-di-n-propylamine	0.7690000	0.9770700	0.9770700	0.05	27.06		AVRG
3&4-Methylphenol	0.8850000	1.0955000	1.0955000	0.01	23.78		AVRG
Nitrobenzene	0.4120000	0.8261000	0.8261000	0.01	100.51		AVRG
Isophorone	0.6620000	0.7888700	0.7888700	0.01	19.16		AVRG
2-Nitrophenol	0.2070000	0.2193000	0.2193000	0.01	5.94	20.00	AVRG
2,4-Dimethyphenol	0.3430000	0.4134700	0.4134700	0.01	20.54		AVRG
Bis(2-Chloroethoxy)methane	0.5370000	0.4477100	0.4477100	0.01	-16.63		AVRG
2,4-Dichlorophenol	0.2880000	0.2658700	0.2658700	0.01	-7.68	20.00	AVRG
1,2,4-Trichlorobenzene	0.3520000	0.3253100	0.3253100	0.01	-7.58		AVRG
Naphthalene	0.8870000	0.8964800	0.8964800	0.01	1.07		AVRG
4-Chloroaniline	0.3860000	0.3327200	0.3327200	0.01	-13.80		AVRG
Hexachlorobutadiene	0.2250000	0.2002600	0.2002600	0.01	-11.00	20.00	AVRG
4-Chloro-3-Methylphenol	0.2770000	0.2508200	0.2508200	0.01	-9.45	20.00	AVRG
2-Methylnaphthalene	0.7440000	0.6414000	0.6414000	0.01	-13.79		AVRG
Hexachlorocyclopentadiene	0.2920000	0.1295600	0.1295600	0.05	-55.63		AVRG

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GCMS-K Calibration Date: 03/05/03 Time: 1119

Lab File ID: K3801 Init. Calib. Date(s): 03/03/03 03/03/03

Init. Calib. Times: 1254 1900

GC Column: DB5-MS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF42.000 or AMOUNT	CCAL RRF42.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
2,4,6-Trichlorophenol	0.4260000	0.4127400	0.4127400	0.01	-3.11	20.00	AVRG
2,4,5-Trichlorophenol	0.4520000	0.4164900	0.4164900	0.01	-7.86		AVRG
2-Chloronaphthalene	2.1150000	1.9724000	1.9724000	0.01	-6.74		AVRG
2-Nitroaniline	0.4040000	0.3613300	0.3613300	0.01	-10.56		AVRG
Acenaphthylene	1.4240000	1.3450000	1.3450000	0.01	-5.55		AVRG
Dimethyl Phthalate	1.2200000	1.1333000	1.1333000	0.01	-7.11		AVRG
2,6-Dinitrotoluene	0.3100000	0.2696300	0.2696300	0.01	-13.02		AVRG
Acenaphthene	1.0130000	0.9918900	0.9918900	0.01	-2.08	20.00	AVRG
3-Nitroaniline	0.2820000	0.2747800	0.2747800	0.01	-2.56		AVRG
2,4-Dinitrophenol	0.1570000	0.1332700	0.1332700	0.05	-15.12		AVRG
Dibenzofuran	1.3620000	1.2998000	1.2998000	0.01	-4.57		AVRG
4-Nitrophenol	0.1110000	0.1261200	0.1261200	0.05	13.62		AVRG
2,4-Dinitrotoluene	0.3720000	0.3435100	0.3435100	0.01	-7.66		AVRG
Fluorene	41.082000	42.000000	1.0231000	0.01	-2.18		LINR
Diethylphthalate	1.1640000	1.1715000	1.1715000	0.01	0.64		AVRG
4-Chlorophenyl-phenylether	0.5450000	0.5272100	0.5272100	0.01	-3.26		AVRG
4-Nitroaniline	0.2700000	0.2309200	0.2309200	0.01	-14.47		AVRG
4,6-Dinitro-2-Methylphenol	0.1720000	0.1554600	0.1554600	0.01	-9.62		AVRG
N-Nitrosodiphenylamine/DPA	0.4510000	0.4161400	0.4161400	0.01	-7.73	20.00	AVRG
1,2-Diphenylhydrazine	0.9630000	0.9422300	0.9422300	0.01	-2.16		AVRG
4-Bromophenyl-phenylether	0.2480000	0.2261300	0.2261300	0.01	-8.82		AVRG
Hexachlorobenzene	0.3340000	0.3029700	0.3029700	0.01	-9.29		AVRG
Pentachlorophenol	0.2090000	0.2149000	0.2149000	0.01	2.82	20.00	AVRG
Phenanthrene	0.9270000	0.8753000	0.8753000	0.01	-5.58		AVRG
Anthracene	0.9430000	0.9196000	0.9196000	0.01	-2.48		AVRG
Carbazole	0.8120000	0.7903300	0.7903300	0.01	-2.67		AVRG
Di-n-butylphthalate	1.0830000	1.1783000	1.1783000	0.01	8.80		AVRG
Fluoranthene	0.8770000	0.9684600	0.9684600	0.01	10.43	20.00	AVRG
Benzidine	0.2540000	0.2869700	0.2869700	0.01	12.98		AVRG

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GCMS-K Calibration Date: 03/05/03 Time: 1119

Lab File ID: K3801 Init. Calib. Date(s): 03/03/03 03/03/03

Init. Calib. Times: 1254 1900

GC Column: DB5-MS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF42.000 or AMOUNT	CCAL RRF42.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Pyrene	1.3560000	1.4101000	1.4101000	0.01	3.99		AVRG
Butylbenzylphthalate	0.5700000	0.4378700	0.4378700	0.01	-23.18		AVRG
Benzo(a)anthracene	0.9380000	0.8024700	0.8024700	0.01	-14.45		AVRG
Chrysene	0.8880000	0.7786000	0.7786000	0.01	-12.32		AVRG
3,3'-Dichlorobenzidine	0.3720000	0.3211300	0.3211300	0.01	-13.68		AVRG
bis(2-Ethylhexyl)phthalate	0.7350000	0.7110000	0.7110000	0.01	-3.26		AVRG
Di-n-octylphthalate	1.9010000	1.7414000	1.7414000	0.01	-8.40	20.00	AVRG
Benzo(b)fluoranthene	1.3620000	1.2724000	1.2724000	0.01	-6.58		AVRG
Benzo(k)fluoranthene	1.5200000	1.2248000	1.2248000	0.01	-19.42		AVRG
Benzo(a)pyrene	1.2570000	1.1090000	1.1090000	0.01	-11.77	20.00	AVRG
Indeno(1,2,3-cd)pyrene	1.1090000	0.9808700	0.9808700	0.01	-11.55		AVRG
Dibenzo(a,h)anthracene	1.2780000	1.1390000	1.1390000	0.01	-10.88		AVRG
Benzo(g,h,i)perylene	1.1220000	0.9308900	0.9308900	0.01	-17.03		AVRG
N-Nitrosomethylethylamine	0.3490000	0.4024100	0.4024100	0.01	15.30		AVRG
Methyl Methanesulfonate	0.7190000	0.6206500	0.6206500	0.01	-13.68		AVRG
N-Nitrosodiethylamine	0.4490000	0.3922300	0.3922300	0.01	-12.64		AVRG
Ethyl Methanesulfonate	1.0660000	1.0065000	1.0065000	0.01	-5.58		AVRG
N-Nitrosopyrrolidine	0.3880000	0.4506200	0.4506200	0.01	16.14		AVRG
N-Nitrosomorpholine	0.7010000	0.9209000	0.9209000	0.01	31.37		AVRG
o-Toluidine	0.5060000	0.9572100	0.9572100	0.01	89.17		AVRG
Acetophenone	0.4870000	0.9542600	0.9542600	0.01	95.95		AVRG
N-Nitrosopiperidine	0.1630000	0.1811000	0.1811000	0.01	11.10		AVRG
O,O,O-Triethylphosphorothioa	0.1540000	0.1317400	0.1317400	0.01	-14.45		AVRG
2,6-Dichlorophenol	0.2920000	0.2449700	0.2449700	0.01	-16.11		AVRG
Hexachloropropene	0.2570000	0.2164100	0.2164100	0.01	-15.79		AVRG
A,A-Dimethylphenethylamine	1.0050000	0.7403800	0.7403800	0.01	-26.33		AVRG
N-Nitroso-Di-N-Butylamine	0.1930000	0.1668500	0.1668500	0.01	-13.55		AVRG
Isosafrole	0.2200000	0.1762000	0.1762000	0.01	-19.91		AVRG
p-Phenylenediamine	0.1380000	3.95e-002	3.95e-002	0.01	-71.38		AVRG

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GCMS-K Calibration Date: 03/05/03 Time: 1119

Lab File ID: K3801 Init. Calib. Date(s): 03/03/03 03/03/03

Init. Calib. Times: 1254 1900

GC Column: DB5-MS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF42.000 or AMOUNT	CCAL RRF42.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
1,2,4,5-Tetrachlorobenzene	0.6800000	0.6415200	0.6415200	0.01	-5.66		AVRG
Safrole	0.2200000	0.1974200	0.1974200	0.01	-10.26		AVRG
1,4-Naphthoquinone	0.3830000	0.4026000	0.4026000	0.01	5.12		AVRG
1,3-Dinitrobenzene	0.2040000	0.1672900	0.1672900	0.01	-18.00		AVRG
Pentachlorobenzene	0.5810000	0.5613800	0.5613800	0.01	-3.38		AVRG
2-Naphthylamine	0.7390000	0.6688000	0.6688000	0.01	-9.50		AVRG
1-Naphthylamine	0.6630000	0.5972800	0.5972800	0.01	-9.91		AVRG
2,3,4,6-Tetrachlorophenol	0.3260000	0.3124800	0.3124800	0.01	-4.15		AVRG
0,0-diethyl-o-2-pyrazinylpho	0.1980000	0.1991800	0.1991800	0.01	0.60		AVRG
5-Nitro-O-Toluidine	39.005000	42.000000	0.3027900	0.01	-7.13		2RDR
Sulfotepp	0.1470000	0.1589800	0.1589800	0.01	8.15		AVRG
1,3,5-Trinitrobenzene	0.1670000	0.1595500	0.1595500	0.01	-4.46		AVRG
Phorate	0.5200000	0.5077100	0.5077100	0.01	-2.36		AVRG
Diallate	5.4e-002	5.14e-002	5.14e-002	0.01	-4.81		AVRG
Phenacetin	0.3590000	0.3406400	0.3406400	0.01	-5.11		AVRG
Dimethoate	48.501000	42.000000	0.3105200	0.01	15.48		LINR
4-Aminobiphenyl	0.6200000	0.5957400	0.5957400	0.01	-3.91		AVRG
Pentachloronitrobenzene	0.1170000	0.1194700	0.1194700	0.01	2.11		AVRG
Pronamide	0.2950000	0.3135100	0.3135100	0.01	6.27		AVRG
Disulfoton	0.3430000	0.3710400	0.3710400	0.01	8.17		AVRG
Methyl Parathion	0.2220000	0.2580300	0.2580300	0.01	16.23		AVRG
4-Nitroquinoline-1-Oxide	1.7e-002	1.67e-002	1.67e-002	0.01	-1.76		AVRG
Methapyrilene	0.2280000	0.2956700	0.2956700	0.01	29.68		AVRG
Isodrin	0.1230000	0.1240200	0.1240200	0.01	0.83		AVRG
Aramite	33.404000	42.000000	5.44e-002	0.01	-20.47		LINR
p-Dimethylaminoazobenzene	0.2120000	0.1389400	0.1389400	0.01	-34.46		AVRG
Chlorobenzilate	0.3650000	0.2394300	0.2394300	0.01	-34.40		AVRG
Kepone	2.2e-002	2.11e-002	2.11e-002	0.01	-4.09		AVRG
Famphur	7.8e-002	8.17e-002	8.17e-002	0.01	4.74		AVRG

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GCMS-K Calibration Date: 03/05/03 Time: 1119

Lab File ID: K3801 Init. Calib. Date(s): 03/03/03 03/03/03

Init. Calib. Times: 1254 1900

GC Column: DB5-MS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF42.000 or AMOUNT	CCAL RRF42.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
3,3'-Dimethylbenzidine	0.3870000	0.3063300	0.3063300	0.01	-20.84		AVRG	
2-Acetylaminofluorene	0.3860000	0.2997900	0.2997900	0.01	-22.33		AVRG	
3-Methylcholanthrene	0.3430000	0.4358800	0.4358800	0.01	27.08		AVRG	
7,12-Dimethylbenz(A)Anthrace	0.4160000	0.3090000	0.3090000	0.01	-25.72		AVRG	
Hexachlorophene	0.0000000			0.01	0.00		AVRG	<-
2-Fluorophenol	1.1020000	0.9976500	0.9976500	0.01	-9.47		AVRG	
Phenol-D6	1.2880000	1.2548000	1.2548000	0.01	-2.58		AVRG	
Nitrobenzene-D5	0.3940000	0.7491300	0.7491300	0.01	90.13		AVRG	
2-Fluorobiphenyl	1.1930000	1.1006000	1.1006000	0.01	-7.74		AVRG	
2,4,6-Tribromophenol	0.2370000	0.2347800	0.2347800	0.01	-0.94		AVRG	
Terphenyl-D14	0.8740000	0.5088600	0.5088600	0.01	-41.78		AVRG	

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Lab File ID (Standard): K3801 Date Analyzed: 03/05/03

Instrument ID: GCMS-K Time Analyzed: 1119

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
12 HOUR STD		149498	6.14	266037	8.96	122791	12.95
UPPER LIMIT		298996	6.64	532074	9.46	245582	13.45
LOWER LIMIT		74749	5.64	133019	8.46	61396	12.45
	CLIENT SAMPLE ID	LAB SAMPLE ID					
01	WG1575-LCSD	WG1575-3	75759	6.16	235269	8.97	123737	12.97
02								
03								
04								
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

IS1 (DCB) = 1,4-Dichlorobenzene-D4
IS2 (NPT) = Naphthalene-D8
IS3 (ANT) = Acenaphthene-D10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Lab File ID (Standard): K3801 Date Analyzed: 03/05/03

Instrument ID: GCMS-K Time Analyzed: 1119

		IS4 (PHN)			IS5 (CRY)			IS6 (PRY)		
		AREA	#	RT	#	AREA	#	RT	#	AREA	#	RT	#
12 HOUR STD		179076		16.35		124106		22.49		100614		25.55	
UPPER LIMIT		358152		16.85		248212		22.99		201228		26.05	
LOWER LIMIT		89538		15.85		62053		21.99		50307		25.05	
	CLIENT SAMPLE ID	LAB SAMPLE ID											
01	WG1575-LCSD	WG1575-3		184756		16.38		93464		22.52		50869		25.57	
02													
03													
04													
05													
06													
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													

IS4 (PHN) = Phenanthrene-D10
IS5 (CRY) = Chrysene-D12
IS6 (PRY) = Perylene-D12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Lab File ID: XD913 DFTPP Injection Date: 02/28/03

Instrument ID: GCMS-X DFTPP Injection Time: 1214

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	50.4
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Less than 100.0% of mass 198	65.3
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	40.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.0
275	10.0 - 30.0% of mass 198	25.2
365	1.0 - 100.0% of mass 198	3.0
441	0.0 - 100.0% of mass 443	7.6 (66.5)2
442	40.0 - 100.0% of mass 198	56.1
443	17.0 - 23.0% of mass 442	11.4 (20.4)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD3.00X0228	X2236	02/28/03	1308
02		SSTD0.125X0228	X2237	02/28/03	1350
03		SSTD0.625X0228	X2238	02/28/03	1432
04		SSTD2.00X0228	X2239	02/28/03	1513
05		SSTD2.50X0228	X2240	02/28/03	1555
06		SSTD1.25X0228	X2241	02/28/03	1636
07	WG1567-BLANK	WG1567-1	X2242	02/28/03	1717
08	WG1567-LCS	WG1567-2	X2243	02/28/03	1759
09	WG1567-LCSD	WG1567-3	X2244	02/28/03	1840
10	FC-MW-06-0103	WT0233-1	X2245	02/28/03	1922
11	FC-MW-05-0103	WT0233-3	X2247	02/28/03	2045
12	FC-MW-05-0103-RA	WT0233-3	X2250	02/28/03	2249
13					
14					
15					
16					
17					
18					
19					
20					

FORM V SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GCMS-X Calibration Date(s): 02/13/03 02/28/03

Column: DB5-MS ID: 0.25 (mm) Calibration Time(s): 1234 1636

LAB FILE ID: RF0.125: X2237 RF0.625: X2238 RF1.25: X2241
RF2: X2239 RF2.5: X2240 RF3: X2236

COMPOUND	RF0.125	RF0.625	RF1.25	RF2	RF2.5	RF3	CURVE	COEFF. A1	%RSD OR R^2	MAX %RSD OR R^2	
Naphthalene	0.904	0.745	0.818	0.877	0.862	0.785	AVRG	0.83192	7.236	30.000	
2-Methylnaphthalene	0.387	0.382	0.417	0.485	0.512	0.492	AVRG	0.44579	12.887	30.000	
Acenaphthylene	1.255	1.639	1.795	1.680	1.772	1.960	AVRG	1.68362	14.106	30.000	
Acenaphthene	1.226	1.027	1.222	1.170	1.125	1.129	AVRG	1.14975	6.473	30.000	
Fluorene	1.083	1.149	1.128	1.153	1.139	1.378	AVRG	1.17148	8.886	30.000	
Phenanthrene	0.891	0.699	0.932	0.895	0.893	1.000	AVRG	0.88497	11.332	30.000	
Anthracene	0.998	0.787	1.044	1.149	1.109	1.115	AVRG	1.03375	12.832	30.000	
Fluoranthene	1.117	0.803	0.986	1.047	1.023	1.084	AVRG	1.00996	11.023	30.000	
Pyrene	1.509	1.252	1.378	1.366	1.294	0.976	AVRG	1.29598	13.868	30.000	
Benzo(a)anthracene	0.624	0.360	0.399	0.536	0.650	0.409	AVRG	0.49636	25.049	30.000	
Chrysene	1.301	1.379	1.688	1.431	1.373	1.386	AVRG	1.42629	9.464	30.000	
Benzo(b)fluoranthene	0.947	0.636	0.847	0.999	1.214	1.121	AVRG	0.96075	21.308	30.000	
Benzo(k)fluoranthene	2.832	2.523	3.146	2.430	2.503	2.541	AVRG	2.66258	10.299	30.000	
Benzo(a)pyrene	1.434	1.383	1.733	1.394	1.549	1.516	AVRG	1.50140	8.741	30.000	
Indeno(1,2,3-cd)pyrene	0.729	0.587	0.677	0.595	0.668	0.946	AVRG	0.70040	18.827	30.000	
Dibenzo(a,h)anthracene	1.129	0.963	1.290	0.833	0.876	1.128	AVRG	1.03661	16.905	30.000	
Benzo(g,h,i)perylene	1.639	1.471	1.978	1.430	1.592	1.637	AVRG	1.62452	11.920	30.000	
1-Methylnaphthalene	0.859	0.593	0.598	0.636	0.607	0.855	AVRG	0.69136	18.710	30.000	
Nitrobenzene-D5	0.120	0.094	0.094	0.183	0.196	0.295	AVRG	0.16347	47.650	30.000	<-
2-Fluorobiphenyl	1.213	1.206	1.538	1.637	1.593	1.308	AVRG	1.41577	13.833	30.000	
Terphenyl-D14	0.772	0.739	0.843	0.886	0.836	0.786	AVRG	0.81052	6.670	30.000	

Average %RSD test result.

Calculate Average %RSD: 14.84537983
Maximum Average %RSD: 15.00000000

Note: Passes Average %RSD Test.

FORM VI SV

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GCMS-X Calibration Date: 02/28/03 Time: 1636

Lab File ID: X2241 Init. Calib. Date(s): 02/13/03 02/28/03

Init. Calib. Times: 1234 1636

GC Column: DB5-MS ID: 0.25 (mm)

COMPOUND	RRF OR AMOUNT	RRF1.2500 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Naphthalene	0.8320000	0.8178700	0.01	-1.70		AVRG
2-Methylnaphthalene	0.4460000	0.4170300	0.01	-6.50		AVRG
Acenaphthylene	1.6840000	1.7948000	0.01	6.58		AVRG
Acenaphthene	1.1500000	1.2216000	0.01	6.23	20.00	AVRG
Fluorene	1.1720000	1.1283000	0.01	-3.73		AVRG
Phenanthrene	0.8850000	0.9317400	0.01	5.28		AVRG
Anthracene	1.0340000	1.0440000	0.01	0.97		AVRG
Fluoranthene	1.0100000	0.9858400	0.01	-2.39	20.00	AVRG
Pyrene	1.2960000	1.3781000	0.01	6.33		AVRG
Benzo(a)anthracene	0.4960000	0.3989600	0.01	-19.56		AVRG
Chrysene	1.4260000	1.6884000	0.01	18.40		AVRG
Benzo(b)fluoranthene	0.9610000	0.8473700	0.01	-11.82		AVRG
Benzo(k)fluoranthene	2.6620000	3.1458000	0.01	18.17		AVRG
Benzo(a)pyrene	1.5020000	1.7326000	0.01	15.35	20.00	AVRG
Indeno(1,2,3-cd)pyrene	0.7000000	0.6766500	0.01	-3.34		AVRG
Dibenzo(a,h)anthracene	1.0360000	1.2898000	0.01	24.50		AVRG
Benzo(g,h,i)perylene	1.6240000	1.9778000	0.01	21.79		AVRG
1-Methylnaphthalene	0.6910000	0.5976500	0.01	-13.51		AVRG
Nitrobenzene-D5	0.1640000	9.35e-002	0.01	-42.99		AVRG
2-Fluorobiphenyl	1.4160000	1.5380000	0.01	8.62		AVRG
Terphenyl-D14	0.8100000	0.8434200	0.01	4.12		AVRG

FORM VII PEST

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: NAF KEY WEST CTO233
PO No:
Sample Date: ~~02/04/03~~ 03.07.03
Received Date: ~~02/04/03~~
Extraction Date: 02/04/03
Analysis Date: 02/28/03
Report Date: 03/05/2003
Matrix: WATER
% Solids: NA

Lab ID: WG1567-1
Client ID: WG1567-Blank
SDG: CTO233-4
Extracted by: RH
Extraction Method: SW846 3510
Analyst: JJC
Analysis Method: SW846 M8270C
Lab Prep Batch: WG1567
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.050
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.080
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.050
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.080
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.060
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.080
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.080
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.11
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.090
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.070
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.090
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.080
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.090
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.10
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.15
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.080
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.080
4165-60-0	Nitrobenzene-D5		102%				
321-60-8	2-Fluorobiphenyl		67%				
1718-51-0	Terphenyl-D14		98%				

Katahdin Analytical Services

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: WG1567-1
Operator : JJC
Sample Location:
Sample Matrix: WATER
Analysis Type: SV
Inj Date: 28-FEB-2003 17:17

Client SDG: 021497
Client Smp ID: WG1567-Blank
Sample Date: 04-FEB-2003
Sample Point:
Date Received:04-FEB-2003 12:00
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM 2
WATER SEMIVOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

	CLIENT SAMPLE ID	LAB SAMPLE ID	S1 NBZ#	S2 FBP#	S3 TPH#	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	WG1567-BLANK	WG1567-1	102	67	98						0
02	WG1567-LCS	WG1567-2	106	74	81						0
03	WG1567-LCSD	WG1567-3	125	72	69						0
04	FC-MW-06-0103	WT0233-1	79	63	65						0
05	FC-MW-05-0103	WT0233-3	121	66	62						0
06	FC-MW-05-0103-RA	WT0233-3	97	64	68						0
07	FC-MW-20R-0103	WT0233-2	D	D	D						0
08											
09											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											

	QC LIMITS
S1 (NBZ) = Nitrobenzene-D5	(30-150)
S2 (FBP) = 2-Fluorobiphenyl	(30-150)
S3 (TPH) = Terphenyl-D14	(30-150)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Lab File ID (Standard): X2241 Date Analyzed: 02/28/03

Instrument ID: GCMS-X Time Analyzed: 1636

		IS1(DCB) AREA	#	RT	#	IS2(NPT) AREA	#	RT	#	IS3(ANT) AREA	#	RT	#
12 HOUR STD		3839		5.84		19599		8.64		6252		12.69	
UPPER LIMIT		7678		6.34		39198		9.14		12504		13.19	
LOWER LIMIT		1920		5.34		9800		8.14		3126		12.19	
	CLIENT SAMPLE ID	LAB SAMPLE ID											
01	WG1567-BLANK	WG1567-1		4250		5.82		19584		8.64		8091		12.66	
02	WG1567-LCS	WG1567-2		5468		5.81		20774		8.64		9543		12.66	
03	WG1567-LCSD	WG1567-3		4918		5.81		19567		8.64		8195		12.66	
04	FC-MW-06-0103	WT0233-1		4388		5.82		20643		8.64		8121		12.66	
05	FC-MW-05-0103	WT0233-3		5946		5.81		22451		8.64		9256		12.66	
06	FC-MW-05-0103-RA	WT0233-3		6134		5.82		28533		8.64		11869		12.66	
07															
08															
09															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															

IS1 (DCB) = 1,4-Dichlorobenzene-D4
IS2 (NPT) = Naphthalene-D8
IS3 (ANT) = Acenaphthene-D10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-1

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Lab File ID (Standard): X2241 Date Analyzed: 02/28/03

Instrument ID: GCMS-X Time Analyzed: 1636

		IS4 (PHN) AREA	#	RT	#	IS5 (CRY) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
12 HOUR STD		7169		16.08		5443		22.24		2148		25.25	
UPPER LIMIT		14338		16.58		10886		22.74		4296		25.75	
LOWER LIMIT		3585		15.58		2722		21.74		1074		24.75	
	CLIENT SAMPLE ID	LAB SAMPLE ID											
01	WG1567-BLANK	WG1567-1		9228		16.08		5131		22.24		2214		25.25	
02	WG1567-LCS	WG1567-2		13832		16.08		11425	*	22.20		5717	*	25.24	
03	WG1567-LCSD	WG1567-3		11477		16.08		8539		22.20		3972		25.25	
04	FC-MW-06-0103	WT0233-1		9980		16.08		8008		22.24		3394		25.25	
05	FC-MW-05-0103	WT0233-3		12756		16.08		9928		22.20		5208	*	25.25	
06	FC-MW-05-0103-RA	WT0233-3		16118	*	16.08		13404	*	22.20		7234	*	25.26	
07															
08															
09															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															

IS4 (PHN) = Phenanthrene-D10
IS5 (CRY) = Chrysene-D12
IS6 (PRY) = Perylene-D12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-2

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Lab File ID: XD918 DFTPP Injection Date: 03/05/03

Instrument ID: GCMS-X DFTPP Injection Time: 0911

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	59.2
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Less than 100.0% of mass 198	70.0
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	47.7
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.4
275	10.0 - 30.0% of mass 198	24.3
365	1.0 - 100.0% of mass 198	3.2
441	0.0 - 100.0% of mass 443	10.7 (87.2)2
442	40.0 - 100.0% of mass 198	54.6
443	17.0 - 23.0% of mass 442	12.2 (22.4)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD1.25X0305	X2285	03/05/03	0933
02	FC-MW-20R-0103	WT0233-2	X2293	03/05/03	1516
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

FORM V SV

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GCMS-X Calibration Date: 03/05/03 Time: 0933

Lab File ID: X2285 Init. Calib. Date(s): 02/13/03 02/28/03

Init. Calib. Times: 1234 1636

GC Column: DB5-MS ID: 0.25 (mm)

COMPOUND	RRF OR AMOUNT	RRF1.2500 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Naphthalene	0.8320000	1.0065000	0.01	20.97		AVRG
2-Methylnaphthalene	0.4460000	0.4807200	0.01	7.78		AVRG
Acenaphthylene	1.6840000	1.5794000	0.01	-6.21		AVRG
Acenaphthene	1.1500000	0.9955300	0.01	-13.43	20.00	AVRG
Fluorene	1.1720000	1.0745000	0.01	-8.32		AVRG
Phenanthrene	0.8850000	0.8766200	0.01	-0.95		AVRG
Anthracene	1.0340000	0.9723600	0.01	-5.96		AVRG
Fluoranthene	1.0100000	0.9287200	0.01	-8.05	20.00	AVRG
Pyrene	1.2960000	1.3646000	0.01	5.29		AVRG
Benzo(a)anthracene	0.4960000	0.4892300	0.01	-1.36		AVRG
Chrysene	1.4260000	1.4409000	0.01	1.04		AVRG
Benzo(b)fluoranthene	0.9610000	1.2621000	0.01	31.33		AVRG
Benzo(k)fluoranthene	2.6620000	1.9436000	0.01	-26.99		AVRG
Benzo(a)pyrene	1.5020000	1.2549000	0.01	-16.45	20.00	AVRG
Indeno(1,2,3-cd)pyrene	0.7000000	1.0667000	0.01	52.39		AVRG
Dibenzo(a,h)anthracene	1.0360000	1.1222000	0.01	8.32		AVRG
Benzo(g,h,i)perylene	1.6240000	1.3758000	0.01	-15.28		AVRG
1-Methylnaphthalene	0.6910000	1.0669000	0.01	54.40		AVRG
Nitrobenzene-D5	0.1640000	0.2648600	0.01	61.50		AVRG
2-Fluorobiphenyl	1.4160000	1.4351000	0.01	1.35		AVRG
Terphenyl-D14	0.8100000	0.8362200	0.01	3.24		AVRG

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Lab File ID (Standard): X2285 Date Analyzed: 03/05/03

Instrument ID: GCMS-X Time Analyzed: 0933

		IS1(DCB) AREA #	IS1(DCB) RT #	IS2(NPT) AREA #	IS2(NPT) RT #	IS3(ANT) AREA #	IS3(ANT) RT #
12 HOUR STD		4910	5.71	17398	8.55	9249	12.55
UPPER LIMIT		9820	6.21	34796	9.05	18498	13.05
LOWER LIMIT		2455	5.21	8699	8.05	4625	12.05
	CLIENT SAMPLE ID	LAB SAMPLE ID					
01	FC-MW-20R-0103	WT0233-2	5938	5.71	19479	8.55	10214	12.58
02								
03								
04								
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

IS1 (DCB) = 1,4-Dichlorobenzene-D4
IS2 (NPT) = Naphthalene-D8
IS3 (ANT) = Acenaphthene-D10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Lab File ID (Standard): X2285 Date Analyzed: 03/05/03

Instrument ID: GCMS-X Time Analyzed: 0933

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
12 HOUR STD		12112	15.94	9534	22.05	5262	25.08
UPPER LIMIT		24224	16.44	19068	22.55	10524	25.58
LOWER LIMIT		6056	15.44	4767	21.55	2631	24.58
	CLIENT SAMPLE ID	LAB SAMPLE ID					
01	FC-MW-20R-0103	WT0233-2	13639	15.94	6670	22.09	3409	25.12
02								
03								
04								
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

IS4 (PHN) = Phenanthrene-D10
IS5 (CRY) = Chrysene-D12
IS6 (PRY) = Perylene-D12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-2

FORM 8
SEMIVOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

GC Column: RTX-CLPII ID: 0.53 (mm) Init. Calib. Date(s): 02/13/03 02/17/03

Instrument ID: GC08

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
DCB: 20.72 TCX: 5.05

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DCB RT	#	TCX RT	#
01	CV	CHLORDANE 0.	02/17/03	1258				
02	EVAL	EVAL	02/17/03	1352				
03	ICAL	INDAB 0.05PP	02/17/03	1419	20.72		5.05	
04	ICAL	INDAB 0.005P	02/17/03	1446	20.72		5.05	
05	ICAL	INDAB 0.01PP	02/17/03	1513	20.72		5.05	
06	ICAL	INDAB 0.025P	02/17/03	1540	20.72		5.05	
07	ICAL	INDAB 0.1PPM	02/17/03	1607	20.72		5.05	
08	ICAL	INDAB 0.25PP	02/17/03	1634	20.72		5.05	
09	IND SOURCE	INDAB 0.05PP	02/17/03	1701				
10	ICAL	TOXAPHENE 1.	02/17/03	1728				
11	WG1590-BLANK	WG1590-1	02/17/03	2037	20.72		5.05	
12	WG1590-LCS	WG1590-2	02/17/03	2105	20.72		5.05	
13	CV	INDAB 0.05PP	02/18/03	0632	20.72		5.05	
14	EVAL	EVAL	02/19/03	1144				
15	ICAL	INDAB 0.05PP	02/19/03	1210	20.72		5.05	
16	ICAL	INDAB 0.005P	02/19/03	1237	20.73		5.05	
17	ICAL	INDAB 0.01PP	02/19/03	1304	20.73		5.05	
18	ICAL	INDAB 0.025P	02/19/03	1331	20.73		5.05	
19	ICAL	INDAB 0.1PPM	02/19/03	1358	20.72		5.05	
20	ICAL	INDAB 0.25PP	02/19/03	1425	20.72		5.05	

QC LIMITS
DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)
TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

GC Column: RTX-CLPI ID: 0.53 (mm) Init. Calib. Date(s): 02/13/03 02/17/03

Instrument ID: GC08

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	MEAN SURROGATE RT FROM INITIAL CALIBRATION DCB: 16.72 TCX: 4.17					
	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DCB RT #	TCX RT #
01	CV	CHLORDANE 0.	02/17/03	1258		
02	EVAL	EVAL	02/17/03	1352		
03	ICAL	INDAB 0.05PP	02/17/03	1419	16.72	4.17
04	ICAL	INDAB 0.005P	02/17/03	1446	16.72	4.17
05	ICAL	INDAB 0.01PP	02/17/03	1513	16.72	4.17
06	ICAL	INDAB 0.025P	02/17/03	1540	16.72	4.17
07	ICAL	INDAB 0.1PPM	02/17/03	1607	16.72	4.17
08	ICAL	INDAB 0.25PP	02/17/03	1634	16.72	4.17
09	IND SOURCE	INDAB 0.05PP	02/17/03	1701		
10	ICAL	TOXAPHENE 1.	02/17/03	1728		
11	WG1590-BLANK	WG1590-1	02/17/03	2037	16.72	4.17
12	WG1590-LCS	WG1590-2	02/17/03	2105	16.72	4.17
13	CV	INDAB 0.05PP	02/18/03	0632	16.72	4.17
14	EVAL	EVAL	02/19/03	1144		
15	ICAL	INDAB 0.05PP	02/19/03	1210	16.71	4.17
16	ICAL	INDAB 0.005P	02/19/03	1237	16.72	4.17
17	ICAL	INDAB 0.01PP	02/19/03	1304	16.72	4.17
18	ICAL	INDAB 0.025P	02/19/03	1331	16.72	4.17
19	ICAL	INDAB 0.1PPM	02/19/03	1358	16.71	4.17
20	ICAL	INDAB 0.25PP	02/19/03	1425	16.71	4.17

QC LIMITS

DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)
TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GC08 Calibration Date(s): 02/13/03 02/17/03

Column: RTX-CLPI ID: 0.53 (mm) Calibration Time(s): 1439 2010

LAB FILE ID: RF0.005: 8TB1157 RF0.01: 8TB1158 RF0.025: 8TB1159
RF0.05: 8TB1156 RF0.1: 8TB1160 RF0.25: 8TB1161

COMPOUND	RF0.005	RF0.01	RF0.025	RF0.05	RF0.1	RF0.25	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2	MAX %RSD OR R^2
alpha-BHC	9803	21225	62137	131720	260350	642180	2ORDR	1e-003	4e-007	2e-014	0.99994	0.99000
gamma BHC	10520	22635	61207	131610	255910	619120	2ORDR	9e-004	4e-007	4e-014	0.99993	0.99000
Heptachlor	13940	28236	72301	135050	258270	601310	2ORDR	-5e-004	4e-007	9e-014	0.99995	0.99000
beta-BHC	6430	13748	33953	66613	126790	305690	2ORDR	-4e-004	8e-007	2.e-013	0.99994	0.99000
Aldrin	12556	26357	70108	141330	269760	637820	2ORDR	3e-004	3e-007	7e-014	0.99996	0.99000
delta-BHC	4495	9463	26139	66043	144740	392720	2ORDR	3e-003	7e-007	-2e-013	0.99945	0.99000
Heptachlor Epoxide	13397	27645	67373	129580	241040	565870	2ORDR	-7e-004	4e-007	1e-013	0.99989	0.99000
Endosulfan I	11398	23937	58091	112600	217390	502350	2ORDR	-2e-004	4e-007	1e-013	0.99999	0.99000
4,4'-DDE	10341	23025	58677	118430	222280	525130	2ORDR	5e-005	4e-007	1.e-013	0.99992	0.99000
Dieldrin	10239	22425	56472	114240	214600	517130	2ORDR	-1e-004	4e-007	8e-014	0.99990	0.99000
Endrin	9249	19713	48774	99788	198040	463530	2ORDR	6e-004	5e-007	1e-013	0.99997	0.99000
4,4'-DDD	5436	11682	29978	69662	135370	342550	2ORDR	1e-003	7e-007	-3e-015	0.99981	0.99000
Endosulfan II	8412	17433	41845	85720	165220	394910	2ORDR	-2e-005	6e-007	1e-013	0.99998	0.99000
4,4'-DDT	5879	12542	31271	69063	137200	344920	2ORDR	8e-004	7e-007	-4e-015	0.99992	0.99000
Endrin Aldehyde	4994	9789	22708	46060	86124	209840	2ORDR	-8e-004	1e-006	3e-013	0.99988	0.99000
Endosulfan sulfate	1927	4149	9976	23756	51345	140610	2ORDR	2e-003	2.e-006	-2e-012	0.99967	0.99000
Methoxychlor	3846	8078	18284	37176	68677	163220	2ORDR	-7e-004	1e-006	1e-012	0.99986	0.99000
Toxaphene	2963	8073	14366	26415	61387	112110	2ORDR	4e-003	3e-005	1.e-010	0.99990	0.99000
(2)	2883	8028	14857	29244	71448	141740	2ORDR	2e-002	3e-005	3e-011	0.99985	0.99000
(3)	2831	7959	15088	30243	74886	150190	2ORDR	3e-002	3.e-005	3e-011	0.99976	0.99000
(4)	3910	10375	19833	39534	98564	198210	2ORDR	4e-002	2e-005	2e-011	0.99971	0.99000
(5)	3656	10013	19824	41056	105360	216300	2ORDR	5e-002	2e-005	9.e-012	0.99969	0.99000
(6)	2758	7808	15330	32085	82451	173090	2ORDR	6e-002	3e-005	1e-011	0.99957	0.99000
(7)	4199	11994	24294	49866	126250	257260	2ORDR	5e-002	2e-005	8e-012	0.99969	0.99000
(8)	1844	5664	11855	26219	72501	155330	2ORDR	9e-002	3e-005	8e-012	0.99945	0.99000
(9)	2045	5742	11745	25602	69300	150230	2ORDR	9e-002	3e-005	1e-011	0.99933	0.99000
(10)	2820	7971	15059	30250	75396	152710	2ORDR	4e-002	3e-005	2e-011	0.99969	0.99000
alpha-Chlordane	12739	26579	63213	118320	224770	517030	2ORDR	-7e-004	4e-007	1e-013	0.99995	0.99000
gamma-Chlordane	13574	27812	66072	129470	243430	573760	2ORDR	-6e-004	4e-007	8e-014	0.99994	0.99000
Endrin Ketone	3697	7849	18955	42311	84464	214000	2ORDR	8e-004	1e-006	-9e-014	0.99991	0.99000
Chlordane	5269	10585	27314	52197	102010	249380	2ORDR	-4e-003	1e-005	2e-012	0.99996	0.99000
(2)	9550	19466	51395	96859	186360	444180	2ORDR	-3e-003	5e-006	1e-012	0.99994	0.99000
(3)	8600	16621	40813	73447	126920	286210	2ORDR	-2e-002	7e-006	7e-012	0.99941	0.99000
(4)	15207	28985	75770	139780	270720	630040	2ORDR	-4e-003	3e-006	8e-013	0.99995	0.99000
(5)	20114	39315	100050	182850	327650	744320	2ORDR	-1e-002	3e-006	9e-013	0.99970	0.99000
Tetrachloro-m-Xylene	9669	19083	47921	94497	177060	424140	2ORDR	-5e-004	5e-007	1e-013	0.99990	0.99000
Decachlorobiphenyl	10655	21062	43921	80522	140660	314260	2ORDR	-2e-003	6e-007	6e-013	0.99957	0.99000

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GC08 Calibration Date(s): 02/13/03 02/17/03

Column: RTX-CLPII ID: 0.53 (mm) Calibration Time(s): 1439 2010

LAB FILE ID: RF0.005: 8TB2157 RF0.01: 8TB2158 RF0.025: 8TB2159
RF0.05: 8TB2156 RF0.1: 8TB2160 RF0.25: 8TB2161

COMPOUND	RF0.005	RF0.01	RF0.025	RF0.05	RF0.1	RF0.25	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2	MAX %RSD OR R^2
alpha-BHC	9368	19576	53375	117260	237540	567160	2ORDR	2e-003	4.e-007	6.e-014	0.99986	0.99000
gamma BHC	9896	20617	54324	115830	229890	546860	2ORDR	1.e-003	4e-007	7e-014	0.99994	0.99000
Heptachlor	10240	20372	49811	95189	187920	437950	2ORDR	-2e-004	5e-007	1e-013	0.99998	0.99000
beta-BHC	6376	12959	29755	60045	115570	271400	2ORDR	-3e-004	8e-007	4e-013	0.99998	0.99000
Aldrin	9400	18909	49756	99379	192520	462160	2ORDR	1e-004	5.e-007	9.e-014	0.99998	0.99000
delta-BHC	4491	9623	26814	61588	135130	355180	2ORDR	2e-003	8e-007	-2e-013	0.99964	0.99000
Heptachlor Epoxide	8359	17049	41058	80671	158380	364700	2ORDR	5e-005	6e-007	3e-013	0.99999	0.99000
Endosulfan I	7052	14274	34355	67033	133560	313430	2ORDR	-1e-005	7e-007	3e-013	0.99998	0.99000
4,4'-DDE	7856	16179	38556	76091	148080	350430	2ORDR	-2e-004	6e-007	2e-013	1.00000	0.99000
Dieldrin	6145	12642	31157	63471	127970	312280	2ORDR	4e-004	8e-007	9e-014	0.99998	0.99000
Endrin	5476	11552	27650	56289	110400	267850	2ORDR	2e-005	9e-007	2e-013	0.99999	0.99000
4,4'-DDD	4027	8604	21270	44292	91165	230530	2ORDR	6e-004	1e-006	-1e-013	0.99996	0.99000
Endosulfan II	5699	11728	27586	55293	108560	262370	2ORDR	-2e-004	9.e-007	2e-013	0.99999	0.99000
4,4'-DDT	4509	9678	23190	47554	94380	239220	2ORDR	-8e-006	1e-006	-8e-014	0.99999	0.99000
Endrin Aldehyde	5286	10226	23607	46912	89463	216770	2ORDR	-8e-004	1e-006	3e-013	0.99995	0.99000
Endosulfan sulfate	2067	4441	10586	23063	50119	134220	2ORDR	1e-003	2e-006	-2e-012	0.99979	0.99000
Methoxychlor	3586	7440	16729	31535	59399	141890	2ORDR	-1e-003	2e-006	1e-012	0.99987	0.99000
Toxaphene	373	1185	1664	3161	8206	17442	2ORDR	1e-002	3e-004	5e-010	0.99945	0.99000
(2)	418	1230	1809	3460	9634	19533	2ORDR	4e-002	2e-004	1e-009	0.99953	0.99000
(3)	471	1485	2932	6322	18841	42179	2ORDR	0.10496	1e-004	-4e-011	0.99917	0.99000
(4)	985	2672	5204	10815	30071	63330	2ORDR	7e-002	8e-005	4e-011	0.99960	0.99000
(5)	248	659	1338	3225	10895	24557	2ORDR	0.14330	2e-004	-3e-010	0.99887	0.99000
(6)	4466	10520	20147	39141	97888	192410	2ORDR	3e-002	2e-005	2.e-011	0.99975	0.99000
(7)	2899	7293	14758	30200	80896	163350	2ORDR	5e-002	3e-005	1e-011	0.99976	0.99000
(8)	1428	3595	7515	15539	42918	91121	2ORDR	7.e-002	5e-005	2e-011	0.99958	0.99000
(9)	770	2081	4408	9580	28841	64518	2ORDR	0.10160	8e-005	-5e-011	0.99935	0.99000
(10)	1641	4403	9370	19499	55604	118020	2ORDR	8e-002	4e-005	7e-012	0.99957	0.99000
alpha-Chlordane	7803	15897	37350	71938	144290	336440	2ORDR	-1e-004	7e-007	2e-013	0.99996	0.99000
gamma-Chlordane	8042	16204	38788	76190	153210	357210	2ORDR	2e-004	6e-007	2e-013	0.99996	0.99000
Endrin Ketone	3372	7005	16525	35828	73877	183540	2ORDR	8e-004	1e-006	2e-014	0.99989	0.99000
Chlordane	6689	12574	33096	65878	118580	290000	2ORDR	-8e-003	8.e-006	2e-012	0.99962	0.99000
(2)	5810	11450	28650	50873	93668	211320	2ORDR	-1e-002	1e-005	1e-011	0.99980	0.99000
(3)	10031	19242	51146	97562	176670	414940	2ORDR	-8e-003	5e-006	2.e-012	0.99973	0.99000
(4)	7303	14325	37026	69365	128940	303880	2ORDR	-8e-003	7e-006	3e-012	0.99984	0.99000
(5)	7593	14822	39317	72264	138670	325590	2ORDR	-5e-003	7e-006	3e-012	0.99992	0.99000
Tetrachloro-m-Xylene	8744	17300	43411	82577	154210	366840	2ORDR	-8e-004	6e-007	2e-013	0.99987	0.99000
Decachlorobiphenyl	8466	17285	37520	69155	124960	282350	2ORDR	-2e-003	7e-007	6e-013	0.99977	0.99000

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GC08 Calibration Date(s): 02/13/03 02/19/03

Column: RTX-CLPII ID: 0.53 (mm) Calibration Time(s): 1439 1425

LAB FILE ID: RF0.005: 8TB2157 RF0.01: 8TB2158 RF0.025: 8TB2159
RF0.05: 8TB2156 RF0.1: 8TB2160 RF0.25: 8TB2161

								COEFFICENTS			%RSD	MAX %RSD
COMPOUND	RF0.005	RF0.01	RF0.025	RF0.05	RF0.1	RF0.25	CURVE	A0	A1	A2	OR R^2	OR R^2
alpha-BHC	10769	23535	65481	132640	267380	615840	2ORDR	1e-003	3e-007	9e-014	0.99992	0.99000
gamma BHC	11576	22821	61108	130820	240270	564000	2ORDR	4e-004	4e-007	1.e-013	0.99981	0.99000
Heptachlor	12105	24364	59245	115700	218940	498220	2ORDR	-2e-004	4e-007	2e-013	0.99999	0.99000
beta-BHC	7007	14343	33315	65022	120440	274290	2ORDR	-6e-004	8e-007	6e-013	0.99994	0.99000
Aldrin	10714	21410	54529	112880	212750	493620	2ORDR	3e-004	4e-007	1e-013	0.99995	0.99000
delta-BHC	6583	13598	37702	86632	171530	437510	2ORDR	1e-003	6e-007	-2e-014	0.99984	0.99000
Heptachlor Epoxide	9829	19686	46508	92066	172830	395780	2ORDR	-4e-004	5e-007	3e-013	0.99997	0.99000
Endosulfan I	7974	16260	38479	76215	143280	329660	2ORDR	-4e-004	6e-007	3e-013	0.99997	0.99000
4,4'-DDE	8083	16777	39749	79766	152580	357160	2ORDR	-2e-004	6e-007	2e-013	0.99998	0.99000
Dieldrin	6781	14002	33932	70117	137180	327280	2ORDR	3e-004	7.e-007	2e-013	0.99998	0.99000
Endrin	6006	12373	29919	61403	117900	278080	2ORDR	8e-005	8.e-007	3e-013	0.99998	0.99000
4,4'-DDD	4410	9558	23012	49682	99384	246090	2ORDR	7e-004	1.e-006	7e-014	0.99995	0.99000
Endosulfan II	6547	13420	30996	62341	117670	277460	2ORDR	-5e-004	8e-007	4e-013	0.99995	0.99000
4,4'-DDT	5365	11458	27262	55997	109920	268010	2ORDR	7.e-005	9e-007	2e-013	0.99999	0.99000
Endrin Aldehyde	6146	11595	26312	51566	96263	225020	2ORDR	-1e-003	1e-006	6.e-013	0.99992	0.99000
Endosulfan sulfate	3388	7112	16369	34948	68587	178120	2ORDR	-9e-005	1e-006	-4e-013	0.99994	0.99000
Methoxychlor	4114	8600	18783	36415	67053	157360	2ORDR	-1e-003	1e-006	1e-012	0.99984	0.99000
Toxaphene	373	1185	1664	3161	8206	17442	2ORDR	1e-002	3e-004	5e-010	0.99945	0.99000
(2)	418	1230	1809	3460	9634	19533	2ORDR	4e-002	2e-004	1e-009	0.99953	0.99000
(3)	471	1485	2932	6322	18841	42179	2ORDR	0.10496	1e-004	-4e-011	0.99917	0.99000
(4)	985	2672	5204	10815	30071	63330	2ORDR	7e-002	8e-005	4e-011	0.99960	0.99000
(5)	248	659	1338	3225	10895	24557	2ORDR	0.14330	2e-004	-3e-010	0.99887	0.99000
(6)	4466	10520	20147	39141	97888	192410	2ORDR	3e-002	2e-005	2.e-011	0.99975	0.99000
(7)	2899	7293	14758	30200	80896	163350	2ORDR	5e-002	3e-005	1e-011	0.99976	0.99000
(8)	1428	3595	7515	15539	42918	91121	2ORDR	7.e-002	5e-005	2e-011	0.99958	0.99000
(9)	770	2081	4408	9580	28841	64518	2ORDR	0.10160	8e-005	-5e-011	0.99935	0.99000
(10)	1641	4403	9370	19499	55604	118020	2ORDR	8e-002	4e-005	7e-012	0.99957	0.99000
alpha-Chlordane	8891	18068	41910	83116	155970	360000	2ORDR	-5e-004	6.e-007	3e-013	0.99996	0.99000
gamma-Chlordane	9367	18836	43917	87758	166040	387640	2ORDR	-4e-004	6e-007	2.e-013	0.99997	0.99000
Endrin Ketone	4417	9291	21876	46205	87516	216020	2ORDR	-2e-004	1e-006	2.e-013	0.99990	0.99000
Chlordane	6689	12574	33096	65878	118580	290000	2ORDR	-8e-003	8.e-006	2e-012	0.99962	0.99000
(2)	5810	11450	28650	50873	93668	211320	2ORDR	-1e-002	1e-005	1e-011	0.99980	0.99000
(3)	10031	19242	51146	97562	176670	414940	2ORDR	-8e-003	5e-006	2.e-012	0.99973	0.99000
(4)	7303	14325	37026	69365	128940	303880	2ORDR	-8e-003	7e-006	3e-012	0.99984	0.99000
(5)	7593	14822	39317	72264	138670	325590	2ORDR	-5e-003	7e-006	3e-012	0.99992	0.99000
Tetrachloro-m-Xylene	10827	20755	51040	97451	179150	407390	2ORDR	-7e-004	5e-007	3e-013	0.99990	0.99000
Decachlorobiphenyl	9932	19822	41552	75425	133540	296870	2ORDR	-2e-003	7e-007	6e-013	0.99966	0.99000

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GC08 Calibration Date(s): 02/13/03 02/19/03

Column: RTX-CLPI ID: 0.53 (mm) Calibration Time(s): 1439 1425

LAB FILE ID: RF0.005: 8TB1157 RF0.01: 8TB1158 RF0.025: 8TB1159
RF0.05: 8TB1156 RF0.1: 8TB1160 RF0.25: 8TB1161

COMPOUND	RF0.005	RF0.01	RF0.025	RF0.05	RF0.1	RF0.25	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2	MAX %RSD OR R^2
alpha-BHC	11890	26165	74948	154540	303820	715630	2ORDR	1e-003	3e-007	5e-014	0.99996	0.99000
gamma BHC	12923	26997	73897	152790	291170	687440	2ORDR	6e-004	3e-007	6e-014	0.99994	0.99000
Heptachlor	16385	31270	78672	159260	287750	668070	2ORDR	-4e-004	3e-007	8e-014	0.99980	0.99000
beta-BHC	7656	15564	37195	71281	133150	329200	2ORDR	-1e-003	7e-007	8e-014	0.99981	0.99000
Aldrin	13897	29701	77038	150830	291670	659580	2ORDR	4.e-004	3e-007	1e-013	0.99999	0.99000
delta-BHC	5696	12358	34935	87454	179210	483880	2ORDR	2e-003	6e-007	-1e-013	0.99966	0.99000
Heptachlor Epoxide	14619	29818	69008	140050	251210	584600	2ORDR	-8e-004	4e-007	1e-013	0.99976	0.99000
Endosulfan I	13672	27889	65860	130500	240170	546550	2ORDR	-5e-004	4e-007	1e-013	0.99992	0.99000
4,4'-DDE	10111	22296	56682	117760	228420	540120	2ORDR	6e-004	4e-007	9e-014	0.99997	0.99000
Dieldrin	11664	24400	59571	125800	235980	555880	2ORDR	2e-004	4.e-007	9e-014	0.99991	0.99000
Endrin	10440	22213	53952	111540	211460	495040	2ORDR	1e-004	4e-007	1e-013	0.99996	0.99000
4,4'-DDD	4996	11190	28806	67508	136970	344710	2ORDR	2e-003	7e-007	-9e-015	0.99980	0.99000
Endosulfan II	9282	19449	45557	92259	175310	404390	2ORDR	-9e-005	5e-007	2e-013	0.99998	0.99000
4,4'-DDT	6209	13777	33323	74543	146430	365050	2ORDR	8e-004	7e-007	3e-014	0.99990	0.99000
Endrin Aldehyde	5520	10539	24127	49039	91014	222970	2ORDR	-1e-003	1e-006	3e-013	0.99984	0.99000
Endosulfan sulfate	2937	6348	15194	34104	68601	185840	2ORDR	6e-004	2e-006	-9e-013	0.99991	0.99000
Methoxychlor	3493	7736	17557	35798	66656	164050	2ORDR	-7e-004	1e-006	4e-013	0.99983	0.99000
Toxaphene	2963	8073	14366	26415	61387	112110	2ORDR	4e-003	3e-005	1.e-010	0.99990	0.99000
(2)	2883	8028	14857	29244	71448	141740	2ORDR	2e-002	3e-005	3e-011	0.99985	0.99000
(3)	2831	7959	15088	30243	74886	150190	2ORDR	3e-002	3.e-005	3e-011	0.99976	0.99000
(4)	3910	10375	19833	39534	98564	198210	2ORDR	4e-002	2e-005	2e-011	0.99971	0.99000
(5)	3656	10013	19824	41056	105360	216300	2ORDR	5e-002	2e-005	9.e-012	0.99969	0.99000
(6)	2758	7808	15330	32085	82451	173090	2ORDR	6e-002	3e-005	1e-011	0.99957	0.99000
(7)	4199	11994	24294	49866	126250	257260	2ORDR	5e-002	2e-005	8e-012	0.99969	0.99000
(8)	1844	5664	11855	26219	72501	155330	2ORDR	9e-002	3e-005	8e-012	0.99945	0.99000
(9)	2045	5742	11745	25602	69300	150230	2ORDR	9e-002	3e-005	1e-011	0.99933	0.99000
(10)	2820	7971	15059	30250	75396	152710	2ORDR	4e-002	3e-005	2e-011	0.99969	0.99000
alpha-Chlordane	14871	29786	69401	137180	249690	576760	2ORDR	-8e-004	4e-007	1e-013	0.99985	0.99000
gamma-Chlordane	15001	30754	71422	136360	258600	588970	2ORDR	-6e-004	4e-007	1e-013	0.99998	0.99000
Endrin Ketone	4628	9957	23541	52002	98574	249650	2ORDR	1e-004	1.e-006	-5e-015	0.99983	0.99000
Chlordane	5269	10585	27314	52197	102010	249380	2ORDR	-4e-003	1e-005	2e-012	0.99996	0.99000
(2)	9550	19466	51395	96859	186360	444180	2ORDR	-3e-003	5e-006	1e-012	0.99994	0.99000
(3)	8600	16621	40813	73447	126920	286210	2ORDR	-2e-002	7e-006	7e-012	0.99941	0.99000
(4)	15207	28985	75770	139780	270720	630040	2ORDR	-4e-003	3e-006	8e-013	0.99995	0.99000
(5)	20114	39315	100050	182850	327650	744320	2ORDR	-1e-002	3e-006	9e-013	0.99970	0.99000
Tetrachloro-m-Xylene	11660	22873	56857	108920	202720	468710	2ORDR	-6e-004	5e-007	2e-013	0.99992	0.99000
Decachlorobiphenyl	11632	22651	46684	84468	145250	327180	2ORDR	-3e-003	6e-007	5e-013	0.99935	0.99000

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

GC Column: RTX-CLPI ID: 0.53 (mm) Init. Calib. Date(s): 02/13/03 02/17/03

Client Sample ID (PEM): EVAL Date Analyzed :02/17/03
Lab Sample ID (PEM): EVAL Time Analyzed :1352

LAB SAMPLE ID	FILENAME	% DDT BREAKDOWN	% ENDRIN BREAKDOWN
EVAL	8TB1195.d	12.83	1.16

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%
Endrin breakdown must be less than or equal to 15.0%

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

GC Column: RTX-CLPII ID: 0.53 (mm) Init. Calib. Date(s): 02/13/03 02/17/03

Client Sample ID (PEM): EVAL Date Analyzed :02/17/03
Lab Sample ID (PEM): EVAL Time Analyzed :1352

LAB SAMPLE ID	FILENAME	% DDT BREAKDOWN	% ENDRIN BREAKDOWN
EVAL	8TB2195.d	12.68	1.91

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%
Endrin breakdown must be less than or equal to 15.0%

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GC08 Calibration Date: 02/17/03 Time: 1701

Lab File ID: 8TB1202 Init. Calib. Date(s): 02/13/03 02/17/03

Init. Calib. Times: 1439 2010

GC Column: RTX-CLPI ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Endosulfan I	5.07e-002	5.e-002	2281600.0	0.01	1.40	15.00	2RDR
gamma BHC	5.04e-002	5.e-002	2600900.0	0.01	0.80	15.00	2RDR
beta-BHC	4.9e-002	5.e-002	1281000.0	0.01	-2.00	15.00	2RDR
delta-BHC	4.57e-002	5.e-002	1225000.0	0.01	-8.60	15.00	2RDR
Heptachlor	5.17e-002	5.e-002	2777100.0	0.01	3.40	15.00	2RDR
Aldrin	5.19e-002	5.e-002	2877400.0	0.01	3.80	15.00	2RDR
Heptachlor Epoxide	5.23e-002	5.e-002	2637100.0	0.01	4.60	15.00	2RDR
gamma-Chlordane	5.18e-002	5.e-002	2623900.0	0.01	3.60	15.00	2RDR
alpha-Chlordane	5.15e-002	5.e-002	2424400.0	0.01	3.00	15.00	2RDR
4,4'-DDE	5.2e-002	5.e-002	2393700.0	0.01	4.00	15.00	2RDR
alpha-BHC	5.14e-002	5.e-002	2670000.0	0.01	2.80	15.00	2RDR
Dieldrin	5.22e-002	5.e-002	2307300.0	0.01	4.40	15.00	2RDR
Endrin	4.99e-002	5.e-002	2003900.0	0.01	-0.20	15.00	2RDR
4,4'-DDD	4.82e-002	5.e-002	1293900.0	0.01	-3.60	15.00	2RDR
Endosulfan II	4.97e-002	5.e-002	1679900.0	0.01	-0.60	15.00	2RDR
4,4'-DDT	4.86e-002	5.e-002	1320600.0	0.01	-2.80	15.00	2RDR
Endrin Aldehyde	5.e-002	5.e-002	889860.00	0.01	0.00	15.00	2RDR
Methoxychlor	4.96e-002	5.e-002	710720.00	0.01	-0.80	15.00	2RDR
Endosulfan sulfate	4.55e-002	5.e-002	437640.00	0.01	-9.00	15.00	2RDR
Endrin Ketone	4.75e-002	5.e-002	791740.00	0.01	-5.00	15.00	2RDR

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GC08 Calibration Date: 02/17/03 Time: 1701

Lab File ID: 8TB2202 Init. Calib. Date(s): 02/13/03 02/17/03

Init. Calib. Times: 1439 2010

GC Column: RTX-CLPII ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
4,4'-DDE	5.14e-002	5.e-002	1527400.0	0.01	2.80	15.00	2RDR
gamma BHC	5.05e-002	5.e-002	2522500.0	0.01	1.00	15.00	2RDR
beta-BHC	5.12e-002	5.e-002	1260100.0	0.01	2.40	15.00	2RDR
delta-BHC	4.81e-002	5.e-002	1485400.0	0.01	-3.80	15.00	2RDR
Heptachlor	5.17e-002	5.e-002	2254400.0	0.01	3.40	15.00	2RDR
Aldrin	5.26e-002	5.e-002	2165600.0	0.01	5.20	15.00	2RDR
Heptachlor Epoxide	5.06e-002	5.e-002	1761500.0	0.01	1.20	15.00	2RDR
gamma-Chlordane	5.04e-002	5.e-002	1659600.0	0.01	0.80	15.00	2RDR
alpha-Chlordane	5.13e-002	5.e-002	1564200.0	0.01	2.60	15.00	2RDR
Endosulfan I	5.12e-002	5.e-002	1451200.0	0.01	2.40	15.00	2RDR
alpha-BHC	4.98e-002	5.e-002	2571000.0	0.01	-0.40	15.00	2RDR
Dieldrin	5.08e-002	5.e-002	1344400.0	0.01	1.60	15.00	2RDR
Endrin	5.12e-002	5.e-002	1198600.0	0.01	2.40	15.00	2RDR
4,4'-DDD	4.97e-002	5.e-002	1089600.0	0.01	-0.60	15.00	2RDR
Endosulfan II	5.09e-002	5.e-002	1228200.0	0.01	1.80	15.00	2RDR
4,4'-DDT	5.15e-002	5.e-002	809200.00	0.01	3.00	15.00	2RDR
Endrin Aldehyde	5.06e-002	5.e-002	986200.00	0.01	1.20	15.00	2RDR
Endosulfan sulfate	4.73e-002	5.e-002	657760.00	0.01	-5.40	15.00	2RDR
Methoxychlor	5.36e-002	5.e-002	607000.00	0.01	7.20	15.00	2RDR
Endrin Ketone	4.78e-002	5.e-002	1104200.0	0.01	-4.40	15.00	2RDR

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

GC Column: RTX-CLPI ID: 0.53 (mm) Init. Calib. Date(s): 02/13/03 02/19/03

Client Sample ID (PEM): EVAL Date Analyzed :02/19/03
Lab Sample ID (PEM): EVAL Time Analyzed :1144

LAB SAMPLE ID	FILENAME	% DDT BREAKDOWN	% ENDRIN BREAKDOWN
EVAL	8TB3038.d	7.07	1.70

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%
Endrin breakdown must be less than or equal to 15.0%

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

GC Column: RTX-CLPII ID: 0.53 (mm) Init. Calib. Date(s): 02/13/03 02/19/03

Client Sample ID (PEM): EVAL Date Analyzed :02/19/03
Lab Sample ID (PEM): EVAL Time Analyzed :1144

LAB SAMPLE ID	FILENAME	% DDT BREAKDOWN	% ENDRIN BREAKDOWN
EVAL	8TB4038.d	7.03	2.97

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%
Endrin breakdown must be less than or equal to 15.0%

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GC08 Calibration Date: 02/18/03 Time: 0632

Lab File ID: 8TB1232 Init. Calib. Date(s): 02/13/03 02/17/03

Init. Calib. Times: 1439 2010

GC Column: RTX-CLPI ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
alpha-BHC	6.03e-002	5.e-002	3141300.0	0.01	20.60	15.00	2RDR	<-
gamma BHC	5.78e-002	5.e-002	2983300.0	0.01	15.60	15.00	2RDR	<-
Heptachlor	5.44e-002	5.e-002	2913800.0	0.01	8.80	15.00	2RDR	
beta-BHC	5.49e-002	5.e-002	1430400.0	0.01	9.80	15.00	2RDR	
Aldrin	5.53e-002	5.e-002	3060600.0	0.01	10.60	15.00	2RDR	
delta-BHC	5.83e-002	5.e-002	1593100.0	0.01	16.60	15.00	2RDR	<-
Heptachlor Epoxide	5.41e-002	5.e-002	2723500.0	0.01	8.20	15.00	2RDR	
Endosulfan I	5.47e-002	5.e-002	2452100.0	0.01	9.40	15.00	2RDR	
4,4'-DDE	5.08e-002	5.e-002	2337800.0	0.01	1.60	15.00	2RDR	
Dieldrin	5.34e-002	5.e-002	2359400.0	0.01	6.80	15.00	2RDR	
Endrin	5.47e-002	5.e-002	2195300.0	0.01	9.40	15.00	2RDR	
4,4'-DDD	6.22e-002	5.e-002	1680200.0	0.01	24.40	15.00	2RDR	<-
Endosulfan II	5.66e-002	5.e-002	1905100.0	0.01	13.20	15.00	2RDR	
4,4'-DDT	4.29e-002	5.e-002	1164100.0	0.01	-14.20	15.00	2RDR	
Endrin Aldehyde	5.68e-002	5.e-002	1007600.0	0.01	13.60	15.00	2RDR	
Endosulfan sulfate	6.89e-002	5.e-002	680760.00	0.01	37.80	15.00	2RDR	<-
Methoxychlor	4.79e-002	5.e-002	688540.00	0.01	-4.20	15.00	2RDR	
alpha-Chlordane	5.43e-002	5.e-002	2548600.0	0.01	8.60	15.00	2RDR	
gamma-Chlordane	5.48e-002	5.e-002	2766900.0	0.01	9.60	15.00	2RDR	
Endrin Ketone	7.92e-002	5.e-002	1332200.0	0.01	58.40	15.00	2RDR	<-
Tetrachloro-m-Xylene	5.92e-002	5.e-002	2161200.0	0.01	18.40	15.00	2RDR	<-
Decachlorobiphenyl	5.45e-002	5.e-002	1677200.0	0.01	9.00	15.00	2RDR	

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GC08 Calibration Date: 02/18/03 Time: 0632

Lab File ID: 8TB2232 Init. Calib. Date(s): 02/13/03 02/17/03

Init. Calib. Times: 1439 2010

GC Column: RTX-CLPII ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
alpha-BHC	5.44e-002	5.e-002	2571000.0	0.01	8.80	15.00	2RDR	
gamma BHC	5.46e-002	5.e-002	2522500.0	0.01	9.20	15.00	2RDR	
Heptachlor	5.88e-002	5.e-002	2254400.0	0.01	17.60	15.00	2RDR	<-
beta-BHC	5.31e-002	5.e-002	1260100.0	0.01	6.20	15.00	2RDR	
Aldrin	5.52e-002	5.e-002	2165600.0	0.01	10.40	15.00	2RDR	
delta-BHC	5.77e-002	5.e-002	1485400.0	0.01	15.40	15.00	2RDR	<-
Heptachlor Epoxide	5.43e-002	5.e-002	1761500.0	0.01	8.60	15.00	2RDR	
Endosulfan I	5.35e-002	5.e-002	1451200.0	0.01	7.00	15.00	2RDR	
4,4'-DDE	5.03e-002	5.e-002	1527400.0	0.01	0.60	15.00	2RDR	
Dieldrin	5.25e-002	5.e-002	1344400.0	0.01	5.00	15.00	2RDR	
Endrin	5.37e-002	5.e-002	1198600.0	0.01	7.40	15.00	2RDR	
4,4'-DDD	6.06e-002	5.e-002	1089600.0	0.01	21.20	15.00	2RDR	<-
Endosulfan II	5.58e-002	5.e-002	1228200.0	0.01	11.60	15.00	2RDR	
4,4'-DDT	4.3e-002	5.e-002	809200.00	0.01	-14.00	15.00	2RDR	
Endrin Aldehyde	5.37e-002	5.e-002	986200.00	0.01	7.40	15.00	2RDR	
Endosulfan sulfate	6.8e-002	5.e-002	657760.00	0.01	36.00	15.00	2RDR	<-
Methoxychlor	4.89e-002	5.e-002	607000.00	0.01	-2.20	15.00	2RDR	
alpha-Chlordane	5.33e-002	5.e-002	1564200.0	0.01	6.60	15.00	2RDR	
gamma-Chlordane	5.34e-002	5.e-002	1659600.0	0.01	6.80	15.00	2RDR	
Endrin Ketone	7.56e-002	5.e-002	1104200.0	0.01	51.20	15.00	2RDR	<-
Tetrachloro-m-Xylene	5.86e-002	5.e-002	1876400.0	0.01	17.20	15.00	2RDR	<-
Decachlorobiphenyl	5.31e-002	5.e-002	1426600.0	0.01	6.20	15.00	2RDR	

FORM VII PEST

FORM 8
SEMIVOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

GC Column: RTX-CLPI ID: 0.53 (mm) Init. Calib. Date(s): 02/13/03 02/17/03

Instrument ID: GC08

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
DCB: 16.72 TCX: 4.17

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DCB RT #	TCX RT #
01	IND SOURCE	INDAB 0.05PP	02/19/03	1452		
02	ICAL	TOXAPHENE 1.	02/19/03	1519		
03	CV	CHLORDANE 0.	02/19/03	1547		
04	S1SW-2-0103	WT0246-11	02/20/03	0020	16.71	4.17
05	CV	INDAB 0.05PP	02/20/03	0208	16.71	4.17
06	EVAL	EVAL	02/20/03	0955		
07	CV	INDAB 0.05PP	02/20/03	1022	16.71	4.17
08	WG1560-BLANK	WG1560-1	02/20/03	1336	16.71	4.17
09	WG1560-LCS	WG1560-2	02/20/03	1403	16.71	4.17
10	WG1560-LCSD	WG1560-3	02/20/03	1430	16.71	4.17
11	S1MW-7-0103	WT0233-6	02/20/03	1619	16.71	4.17
12	0103-DUP-01	WT0233-7	02/20/03	1646	16.69	4.17
13	CV	INDAB 0.05PP	02/20/03	1746	16.71	4.17
14						
15						
16						
17						
18						
19						
20						

QC LIMITS

DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)
TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

GC Column: RTX-CLPII ID: 0.53 (mm) Init. Calib. Date(s): 02/13/03 02/17/03

Instrument ID: GC08

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
DCB: 20.72 TCX: 5.05

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DCB RT #	TCX RT #
01	IND SOURCE	INDAB 0.05PP	02/19/03	1452		
02	ICAL	TOXAPHENE 1.	02/19/03	1519		
03	CV	CHLORDANE 0.	02/19/03	1547		
04	S1SW-2-0103	WT0246-11	02/20/03	0020	20.72	5.05
05	CV	INDAB 0.05PP	02/20/03	0208	20.72	5.05
06	EVAL	EVAL	02/20/03	0955		
07	CV	INDAB 0.05PP	02/20/03	1022	20.72	5.05
08	WG1560-BLANK	WG1560-1	02/20/03	1336	20.72	5.05
09	WG1560-LCS	WG1560-2	02/20/03	1403	20.72	5.05
10	WG1560-LCSD	WG1560-3	02/20/03	1430	20.72	5.05
11	S1MW-7-0103	WT0233-6	02/20/03	1619	20.72	5.05
12	0103-DUP-01	WT0233-7	02/20/03	1646	20.72	5.05
13	CV	INDAB 0.05PP	02/20/03	1746	20.72	5.05
14						
15						
16						
17						
18						
19						
20						

QC LIMITS
DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)
TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GC08 Calibration Date: 02/19/03 Time: 1452

Lab File ID: 8TB3045 Init. Calib. Date(s): 02/13/03 02/19/03

Init. Calib. Times: 1439 1425

GC Column: RTX-CLPI ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Endosulfan I	5.14e-002	5.e-002	2607200.0	0.01	2.80	15.00	2RDR
gamma BHC	5.02e-002	5.e-002	2999800.0	0.01	0.40	15.00	2RDR
beta-BHC	5.03e-002	5.e-002	1387900.0	0.01	0.60	15.00	2RDR
delta-BHC	4.76e-002	5.e-002	1623800.0	0.01	-4.80	15.00	2RDR
Heptachlor	5.22e-002	5.e-002	3168700.0	0.01	4.40	15.00	2RDR
Aldrin	5.e-002	5.e-002	3022700.0	0.01	0.00	15.00	2RDR
Heptachlor Epoxide	5.22e-002	5.e-002	2779000.0	0.01	4.40	15.00	2RDR
gamma-Chlordane	4.98e-002	5.e-002	2703400.0	0.01	-0.40	15.00	2RDR
alpha-Chlordane	5.16e-002	5.e-002	2729600.0	0.01	3.20	15.00	2RDR
4,4'-DDE	5.01e-002	5.e-002	2329200.0	0.01	0.20	15.00	2RDR
alpha-BHC	5.01e-002	5.e-002	3079900.0	0.01	0.20	15.00	2RDR
Dieldrin	5.15e-002	5.e-002	2509900.0	0.01	3.00	15.00	2RDR
Endrin	5.07e-002	5.e-002	2211000.0	0.01	1.40	15.00	2RDR
4,4'-DDD	4.8e-002	5.e-002	1282300.0	0.01	-4.00	15.00	2RDR
Endosulfan II	4.97e-002	5.e-002	1807900.0	0.01	-0.60	15.00	2RDR
4,4'-DDT	4.99e-002	5.e-002	1456200.0	0.01	-0.20	15.00	2RDR
Endrin Aldehyde	5.02e-002	5.e-002	946540.00	0.01	0.40	15.00	2RDR
Methoxychlor	4.99e-002	5.e-002	686820.00	0.01	-0.20	15.00	2RDR
Endosulfan sulfate	4.78e-002	5.e-002	637860.00	0.01	-4.40	15.00	2RDR
Endrin Ketone	4.86e-002	5.e-002	967780.00	0.01	-2.80	15.00	2RDR

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GC08 Calibration Date: 02/19/03 Time: 1452

Lab File ID: 8TB4045 Init. Calib. Date(s): 02/13/03 02/19/03

Init. Calib. Times: 1439 1425

GC Column: RTX-CLPII ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
4,4'-DDE	5.02e-002	5.e-002	1581600.0	0.01	0.40	15.00	2RDR
gamma BHC	5.e-002	5.e-002	2497900.0	0.01	0.00	15.00	2RDR
beta-BHC	4.98e-002	5.e-002	1269100.0	0.01	-0.40	15.00	2RDR
delta-BHC	4.92e-002	5.e-002	1659800.0	0.01	-1.60	15.00	2RDR
Heptachlor	5.02e-002	5.e-002	2298900.0	0.01	0.40	15.00	2RDR
Aldrin	5.11e-002	5.e-002	2251900.0	0.01	2.20	15.00	2RDR
Heptachlor Epoxide	5.08e-002	5.e-002	1837400.0	0.01	1.60	15.00	2RDR
gamma-Chlordane	5.08e-002	5.e-002	1750700.0	0.01	1.60	15.00	2RDR
alpha-Chlordane	5.08e-002	5.e-002	1655600.0	0.01	1.60	15.00	2RDR
Endosulfan I	5.06e-002	5.e-002	1516600.0	0.01	1.20	15.00	2RDR
alpha-BHC	4.94e-002	5.e-002	2670700.0	0.01	-1.20	15.00	2RDR
Dieldrin	4.99e-002	5.e-002	1389900.0	0.01	-0.20	15.00	2RDR
Endrin	4.9e-002	5.e-002	1186200.0	0.01	-2.00	15.00	2RDR
4,4'-DDD	4.9e-002	5.e-002	968840.00	0.01	-2.00	15.00	2RDR
Endosulfan II	5.03e-002	5.e-002	1227000.0	0.01	0.60	15.00	2RDR
4,4'-DDT	4.98e-002	5.e-002	1106000.0	0.01	-0.40	15.00	2RDR
Endrin Aldehyde	4.96e-002	5.e-002	1000600.0	0.01	-0.80	15.00	2RDR
Endosulfan sulfate	4.85e-002	5.e-002	661700.00	0.01	-3.00	15.00	2RDR
Methoxychlor	5.19e-002	5.e-002	732660.00	0.01	3.80	15.00	2RDR
Endrin Ketone	4.85e-002	5.e-002	866220.00	0.01	-3.00	15.00	2RDR

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GC08 Calibration Date: 02/20/03 Time: 0208

Lab File ID: 8TB3070 Init. Calib. Date(s): 02/13/03 02/19/03

Init. Calib. Times: 1439 1425

GC Column: RTX-CLPI ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
alpha-BHC	5.33e-002	5.e-002	3281400.0	0.01	6.60	15.00	2RDR	
gamma BHC	5.42e-002	5.e-002	3231100.0	0.01	8.40	15.00	2RDR	
Heptachlor	5.51e-002	5.e-002	3338600.0	0.01	10.20	15.00	2RDR	
beta-BHC	5.95e-002	5.e-002	1634700.0	0.01	19.00	15.00	2RDR	<-
Aldrin	5.23e-002	5.e-002	3161100.0	0.01	4.60	15.00	2RDR	
delta-BHC	4.73e-002	5.e-002	1614100.0	0.01	-5.40	15.00	2RDR	
Heptachlor Epoxide	5.65e-002	5.e-002	2998000.0	0.01	13.00	15.00	2RDR	
Endosulfan I	5.19e-002	5.e-002	2635000.0	0.01	3.80	15.00	2RDR	
4,4'-DDE	5.64e-002	5.e-002	2620300.0	0.01	12.80	15.00	2RDR	
Dieldrin	5.38e-002	5.e-002	2619000.0	0.01	7.60	15.00	2RDR	
Endrin	5.23e-002	5.e-002	2281800.0	0.01	4.60	15.00	2RDR	
4,4'-DDD	5.81e-002	5.e-002	1561900.0	0.01	16.20	15.00	2RDR	<-
Endosulfan II	5.5e-002	5.e-002	1993600.0	0.01	10.00	15.00	2RDR	
4,4'-DDT	5.06e-002	5.e-002	1475200.0	0.01	1.20	15.00	2RDR	
Endrin Aldehyde	5.59e-002	5.e-002	1050800.0	0.01	11.80	15.00	2RDR	
Endosulfan sulfate	5.13e-002	5.e-002	685620.00	0.01	2.60	15.00	2RDR	
Methoxychlor	5.74e-002	5.e-002	787360.00	0.01	14.80	15.00	2RDR	
alpha-Chlordane	5.24e-002	5.e-002	2766800.0	0.01	4.80	15.00	2RDR	
gamma-Chlordane	5.37e-002	5.e-002	2905800.0	0.01	7.40	15.00	2RDR	
Endrin Ketone	6.6e-002	5.e-002	1314700.0	0.01	32.00	15.00	2RDR	<-
Tetrachloro-m-Xylene	5.61e-002	5.e-002	2379200.0	0.01	12.20	15.00	2RDR	
Decachlorobiphenyl	5.45e-002	5.e-002	1745300.0	0.01	9.00	15.00	2RDR	

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GC08 Calibration Date: 02/20/03 Time: 0208

Lab File ID: 8TB4070 Init. Calib. Date(s): 02/13/03 02/19/03

Init. Calib. Times: 1439 1425

GC Column: RTX-CLPII ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
alpha-BHC	5.21e-002	5.e-002	2811900.0	0.01	4.20	15.00	2RDR	
gamma BHC	5.51e-002	5.e-002	2746600.0	0.01	10.20	15.00	2RDR	
Heptachlor	5.31e-002	5.e-002	2427600.0	0.01	6.20	15.00	2RDR	
beta-BHC	5.38e-002	5.e-002	1363900.0	0.01	7.60	15.00	2RDR	
Aldrin	5.33e-002	5.e-002	2345300.0	0.01	6.60	15.00	2RDR	
delta-BHC	4.56e-002	5.e-002	1536800.0	0.01	-8.80	15.00	2RDR	
Heptachlor Epoxide	5.27e-002	5.e-002	1903700.0	0.01	5.40	15.00	2RDR	
Endosulfan I	5.22e-002	5.e-002	1560700.0	0.01	4.40	15.00	2RDR	
4,4'-DDE	5.19e-002	5.e-002	1631800.0	0.01	3.80	15.00	2RDR	
Dieldrin	5.12e-002	5.e-002	1425100.0	0.01	2.40	15.00	2RDR	
Endrin	5.28e-002	5.e-002	1275800.0	0.01	5.60	15.00	2RDR	
4,4'-DDD	5.25e-002	5.e-002	1037500.0	0.01	5.00	15.00	2RDR	
Endosulfan II	5.29e-002	5.e-002	1288800.0	0.01	5.80	15.00	2RDR	
4,4'-DDT	4.84e-002	5.e-002	1075700.0	0.01	-3.20	15.00	2RDR	
Endrin Aldehyde	5.23e-002	5.e-002	1052900.0	0.01	4.60	15.00	2RDR	
Endosulfan sulfate	4.95e-002	5.e-002	675680.00	0.01	-1.00	15.00	2RDR	
Methoxychlor	5.13e-002	5.e-002	725320.00	0.01	2.60	15.00	2RDR	
alpha-Chlordane	5.2e-002	5.e-002	1694100.0	0.01	4.00	15.00	2RDR	
gamma-Chlordane	5.2e-002	5.e-002	1792600.0	0.01	4.00	15.00	2RDR	
Endrin Ketone	6.32e-002	5.e-002	1124100.0	0.01	26.40	15.00	2RDR	<-
Tetrachloro-m-Xylene	5.55e-002	5.e-002	2100300.0	0.01	11.00	15.00	2RDR	
Decachlorobiphenyl	5.39e-002	5.e-002	1570900.0	0.01	7.80	15.00	2RDR	

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

GC Column: RTX-CLPI ID: 0.53 (mm) Init. Calib. Date(s): 02/13/03 02/19/03

Client Sample ID (PEM): EVAL Date Analyzed :02/20/03
Lab Sample ID (PEM): EVAL Time Analyzed :0955

LAB SAMPLE ID	FILENAME	% DDT BREAKDOWN	% ENDRIN BREAKDOWN
EVAL	8TB3083.d	9.95	1.69

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%
Endrin breakdown must be less than or equal to 15.0%

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

GC Column: RTX-CLPII ID: 0.53 (mm) Init. Calib. Date(s): 02/13/03 02/19/03

Client Sample ID (PEM): EVAL Date Analyzed :02/20/03
Lab Sample ID (PEM): EVAL Time Analyzed :0955

LAB SAMPLE ID	FILENAME	% DDT BREAKDOWN	% ENDRIN BREAKDOWN
EVAL	8TB4083.d	10.10	2.88

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%
Endrin breakdown must be less than or equal to 15.0%

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GC08 Calibration Date: 02/20/03 Time: 1022

Lab File ID: 8TB3084 Init. Calib. Date(s): 02/13/03 02/19/03

Init. Calib. Times: 1439 1425

GC Column: RTX-CLPI ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
alpha-BHC	5.23e-002	5.e-002	3215100.0	0.01	4.60	15.00	2RDR
gamma BHC	5.23e-002	5.e-002	3123600.0	0.01	4.60	15.00	2RDR
Heptachlor	5.31e-002	5.e-002	3221000.0	0.01	6.20	15.00	2RDR
beta-BHC	5.32e-002	5.e-002	1466300.0	0.01	6.40	15.00	2RDR
Aldrin	5.07e-002	5.e-002	3065100.0	0.01	1.40	15.00	2RDR
delta-BHC	4.3e-002	5.e-002	1458800.0	0.01	-14.00	15.00	2RDR
Heptachlor Epoxide	5.45e-002	5.e-002	2894300.0	0.01	9.00	15.00	2RDR
Endosulfan I	5.24e-002	5.e-002	2655300.0	0.01	4.80	15.00	2RDR
4,4'-DDE	5.1e-002	5.e-002	2370800.0	0.01	2.00	15.00	2RDR
Dieldrin	5.3e-002	5.e-002	2582400.0	0.01	6.00	15.00	2RDR
Endrin	5.16e-002	5.e-002	2252400.0	0.01	3.20	15.00	2RDR
4,4'-DDD	5.03e-002	5.e-002	1345700.0	0.01	0.60	15.00	2RDR
Endosulfan II	5.17e-002	5.e-002	1880300.0	0.01	3.40	15.00	2RDR
4,4'-DDT	4.8e-002	5.e-002	1398300.0	0.01	-4.00	15.00	2RDR
Endrin Aldehyde	5.33e-002	5.e-002	1002100.0	0.01	6.60	15.00	2RDR
Endosulfan sulfate	4.56e-002	5.e-002	607220.00	0.01	-8.80	15.00	2RDR
Methoxychlor	5.16e-002	5.e-002	709600.00	0.01	3.20	15.00	2RDR
alpha-Chlordane	5.32e-002	5.e-002	2805800.0	0.01	6.40	15.00	2RDR
gamma-Chlordane	5.06e-002	5.e-002	2747300.0	0.01	1.20	15.00	2RDR
Endrin Ketone	5.73e-002	5.e-002	1140500.0	0.01	14.60	15.00	2RDR
Tetrachloro-m-Xylene	5.43e-002	5.e-002	2305400.0	0.01	8.60	15.00	2RDR
Decachlorobiphenyl	5.45e-002	5.e-002	1745600.0	0.01	9.00	15.00	2RDR

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GC08 Calibration Date: 02/20/03 Time: 1022

Lab File ID: 8TB4084 Init. Calib. Date(s): 02/13/03 02/19/03

Init. Calib. Times: 1439 1425

GC Column: RTX-CLPII ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
alpha-BHC	5.23e-002	5.e-002	2823000.0	0.01	4.60	15.00	2RDR	
gamma BHC	5.15e-002	5.e-002	2569600.0	0.01	3.00	15.00	2RDR	
Heptachlor	5.33e-002	5.e-002	2435400.0	0.01	6.60	15.00	2RDR	
beta-BHC	5.3e-002	5.e-002	1345300.0	0.01	6.00	15.00	2RDR	
Aldrin	5.12e-002	5.e-002	2253800.0	0.01	2.40	15.00	2RDR	
delta-BHC	4.08e-002	5.e-002	1369100.0	0.01	-18.40	15.00	2RDR	<-
Heptachlor Epoxide	5.15e-002	5.e-002	1861500.0	0.01	3.00	15.00	2RDR	
Endosulfan I	5.15e-002	5.e-002	1541400.0	0.01	3.00	15.00	2RDR	
4,4'-DDE	5.15e-002	5.e-002	1621300.0	0.01	3.00	15.00	2RDR	
Dieldrin	5.08e-002	5.e-002	1414500.0	0.01	1.60	15.00	2RDR	
Endrin	5.06e-002	5.e-002	1224400.0	0.01	1.20	15.00	2RDR	
4,4'-DDD	4.97e-002	5.e-002	981280.00	0.01	-0.60	15.00	2RDR	
Endosulfan II	5.16e-002	5.e-002	1258900.0	0.01	3.20	15.00	2RDR	
4,4'-DDT	4.84e-002	5.e-002	1075300.0	0.01	-3.20	15.00	2RDR	
Endrin Aldehyde	5.12e-002	5.e-002	1031800.0	0.01	2.40	15.00	2RDR	
Endosulfan sulfate	4.52e-002	5.e-002	617400.00	0.01	-9.60	15.00	2RDR	
Methoxychlor	5.08e-002	5.e-002	717820.00	0.01	1.60	15.00	2RDR	
alpha-Chlordane	5.16e-002	5.e-002	1681400.0	0.01	3.20	15.00	2RDR	
gamma-Chlordane	5.13e-002	5.e-002	1768800.0	0.01	2.60	15.00	2RDR	
Endrin Ketone	5.75e-002	5.e-002	1025000.0	0.01	15.00	15.00	2RDR	
Tetrachloro-m-Xylene	5.29e-002	5.e-002	2008300.0	0.01	5.80	15.00	2RDR	
Decachlorobiphenyl	5.27e-002	5.e-002	1539200.0	0.01	5.40	15.00	2RDR	

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GC08 Calibration Date: 02/20/03 Time: 1746

Lab File ID: 8TB3100 Init. Calib. Date(s): 02/13/03 02/19/03

Init. Calib. Times: 1439 1425

GC Column: RTX-CLPI ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
alpha-BHC	5.21e-002	5.e-002	3206700.0	0.01	4.20	15.00	2RDR
gamma BHC	5.29e-002	5.e-002	3155300.0	0.01	5.80	15.00	2RDR
Heptachlor	5.55e-002	5.e-002	3364800.0	0.01	11.00	15.00	2RDR
beta-BHC	5.4e-002	5.e-002	1487900.0	0.01	8.00	15.00	2RDR
Aldrin	5.26e-002	5.e-002	3173900.0	0.01	5.20	15.00	2RDR
delta-BHC	4.38e-002	5.e-002	1485800.0	0.01	-12.40	15.00	2RDR
Heptachlor Epoxide	5.66e-002	5.e-002	3001900.0	0.01	13.20	15.00	2RDR
Endosulfan I	5.29e-002	5.e-002	2680600.0	0.01	5.80	15.00	2RDR
4,4'-DDE	5.15e-002	5.e-002	2396700.0	0.01	3.00	15.00	2RDR
Dieldrin	5.32e-002	5.e-002	2588200.0	0.01	6.40	15.00	2RDR
Endrin	5.23e-002	5.e-002	2281900.0	0.01	4.60	15.00	2RDR
4,4'-DDD	4.85e-002	5.e-002	1297400.0	0.01	-3.00	15.00	2RDR
Endosulfan II	5.38e-002	5.e-002	1951100.0	0.01	7.60	15.00	2RDR
4,4'-DDT	4.92e-002	5.e-002	1434300.0	0.01	-1.60	15.00	2RDR
Endrin Aldehyde	5.43e-002	5.e-002	1021400.0	0.01	8.60	15.00	2RDR
Endosulfan sulfate	4.51e-002	5.e-002	600740.00	0.01	-9.80	15.00	2RDR
Methoxychlor	5.06e-002	5.e-002	696500.00	0.01	1.20	15.00	2RDR
alpha-Chlordane	5.4e-002	5.e-002	2845600.0	0.01	8.00	15.00	2RDR
gamma-Chlordane	5.38e-002	5.e-002	2908300.0	0.01	7.60	15.00	2RDR
Endrin Ketone	5.75e-002	5.e-002	1144300.0	0.01	15.00	15.00	2RDR
Tetrachloro-m-Xylene	5.45e-002	5.e-002	2316000.0	0.01	9.00	15.00	2RDR
Decachlorobiphenyl	5.51e-002	5.e-002	1762500.0	0.01	10.20	15.00	2RDR

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GC08 Calibration Date: 02/20/03 Time: 1746

Lab File ID: 8TB4100 Init. Calib. Date(s): 02/13/03 02/19/03

Init. Calib. Times: 1439 1425

GC Column: RTX-CLPII ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
alpha-BHC	5.23e-002	5.e-002	2823700.0	0.01	4.60	15.00	2RDR
gamma BHC	5.31e-002	5.e-002	2649600.0	0.01	6.20	15.00	2RDR
Heptachlor	5.31e-002	5.e-002	2426700.0	0.01	6.20	15.00	2RDR
beta-BHC	5.24e-002	5.e-002	1329900.0	0.01	4.80	15.00	2RDR
Aldrin	5.36e-002	5.e-002	2356600.0	0.01	7.20	15.00	2RDR
delta-BHC	4.43e-002	5.e-002	1489700.0	0.01	-11.40	15.00	2RDR
Heptachlor Epoxide	5.21e-002	5.e-002	1881900.0	0.01	4.20	15.00	2RDR
Endosulfan I	5.17e-002	5.e-002	1547100.0	0.01	3.40	15.00	2RDR
4,4'-DDE	5.27e-002	5.e-002	1658000.0	0.01	5.40	15.00	2RDR
Dieldrin	5.27e-002	5.e-002	1467700.0	0.01	5.40	15.00	2RDR
Endrin	5.24e-002	5.e-002	1267700.0	0.01	4.80	15.00	2RDR
4,4'-DDD	5.01e-002	5.e-002	989780.00	0.01	0.20	15.00	2RDR
Endosulfan II	5.29e-002	5.e-002	1287500.0	0.01	5.80	15.00	2RDR
4,4'-DDT	5.16e-002	5.e-002	1146000.0	0.01	3.20	15.00	2RDR
Endrin Aldehyde	5.33e-002	5.e-002	1071400.0	0.01	6.60	15.00	2RDR
Endosulfan sulfate	4.63e-002	5.e-002	632380.00	0.01	-7.40	15.00	2RDR
Methoxychlor	5.25e-002	5.e-002	740740.00	0.01	5.00	15.00	2RDR
alpha-Chlordane	5.14e-002	5.e-002	1675900.0	0.01	2.80	15.00	2RDR
gamma-Chlordane	5.21e-002	5.e-002	1793600.0	0.01	4.20	15.00	2RDR
Endrin Ketone	5.64e-002	5.e-002	1005200.0	0.01	12.80	15.00	2RDR
Tetrachloro-m-Xylene	5.48e-002	5.e-002	2076100.0	0.01	9.60	15.00	2RDR
Decachlorobiphenyl	5.55e-002	5.e-002	1613100.0	0.01	11.00	15.00	2RDR

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 02/03/03
Received Date: 02/03/03
Extraction Date: 02/04/03
Analysis Date: 02/20/03
Report Date: 02/24/2003
Matrix: WATER
% Solids: NA

Lab ID: WG1560-1
Client ID: WG1560-Blank
SDG: CTO233-4
Extracted by: JCG
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 8081A
Lab Prep Batch: WG1560
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
319-84-6	alpha-BHC	U	0.050	1.0	0.050	0.050	0.025
58-89-9	gamma BHC	U	0.050	1.0	0.050	0.050	0.022
76-44-8	Heptachlor	U	0.050	1.0	0.050	0.050	0.024
319-85-7	beta-BHC	U	0.050	1.0	0.050	0.050	0.042
309-00-2	Aldrin	U	0.050	1.0	0.050	0.050	0.022
319-86-8	delta-BHC	U	0.050	1.0	0.050	0.050	0.029
1024-57-3	Heptachlor Epoxide	U	0.050	1.0	0.050	0.050	0.023
959-98-8	Endosulfan I	U	0.050	1.0	0.050	0.050	0.018
72-55-9	4,4'-DDE	U	0.10	1.0	0.10	0.10	0.028
60-57-1	Dieldrin	U	0.10	1.0	0.10	0.10	0.017
72-20-8	Endrin	U	0.10	1.0	0.10	0.10	0.018
72-54-8	4,4'-DDD	U	0.10	1.0	0.10	0.10	0.028
33213-65-9	Endosulfan II	U	0.10	1.0	0.10	0.10	0.016
50-29-3	4,4'-DDT	U	0.10	1.0	0.10	0.10	0.030
7421-36-3	Endrin Aldehyde	U	0.10	1.0	0.10	0.10	0.021
1031-07-8	Endosulfan sulfate	U	0.10	1.0	0.10	0.10	0.023
72-43-5	Methoxychlor	U	0.50	1.0	0.50	0.50	0.045
8001-35-2	Toxaphene	U	1.0	1.0	1.0	1.0	0.92
5103-71-9	alpha-Chlordane	U	0.050	1.0	0.050	0.050	0.019
5103-74-2	gamma-Chlordane	U	0.050	1.0	0.050	0.050	0.019
53494-70-5	Endrin Ketone	U	0.10	1.0	0.10	0.10	0.020
12789-03-6	Chlordane	U	0.50	1.0	0.50	0.50	0.15
877-09-8	Tetrachloro-m-Xylene		69%				
2051-24-3	Decachlorobiphenyl		80%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 02/06/03
Received Date: 02/06/03
Extraction Date: 02/07/03
Analysis Date: 02/17/03
Report Date: 02/24/2003
Matrix: WATER
% Solids: NA

Lab ID: WG1590-1
Client ID: WG1590-Blank
SDG: CTO233-4
Extracted by: JCG
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 8081A
Lab Prep Batch: WG1590
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
319-84-6	alpha-BHC	U	0.050	1.0	0.050	0.050	0.025
58-89-9	gamma-BHC	U	0.050	1.0	0.050	0.050	0.022
76-44-8	Heptachlor	U	0.050	1.0	0.050	0.050	0.024
319-85-7	beta-BHC	U	0.050	1.0	0.050	0.050	0.042
309-00-2	Aldrin	U	0.050	1.0	0.050	0.050	0.022
319-86-8	delta-BHC	U	0.050	1.0	0.050	0.050	0.029
1024-57-3	Heptachlor Epoxide	U	0.050	1.0	0.050	0.050	0.023
959-98-8	Endosulfan I	U	0.050	1.0	0.050	0.050	0.018
72-55-9	4,4'-DDE	U	0.10	1.0	0.10	0.10	0.028
60-57-1	Dieldrin	U	0.10	1.0	0.10	0.10	0.017
72-20-8	Endrin	U	0.10	1.0	0.10	0.10	0.018
72-54-8	4,4'-DDD	U	0.10	1.0	0.10	0.10	0.028
33213-65-9	Endosulfan II	U	0.10	1.0	0.10	0.10	0.016
50-29-3	4,4'-DDT	U	0.10	1.0	0.10	0.10	0.030
7421-36-3	Endrin Aldehyde	U	0.10	1.0	0.10	0.10	0.021
1031-07-8	Endosulfan sulfate	U	0.10	1.0	0.10	0.10	0.023
72-43-5	Methoxychlor	U	0.50	1.0	0.50	0.50	0.045
8001-35-2	Toxaphene	U	1.0	1.0	1.0	1.0	0.92
5103-71-9	alpha-Chlordane	U	0.050	1.0	0.050	0.050	0.019
5103-74-2	gamma-Chlordane	U	0.050	1.0	0.050	0.050	0.019
53494-70-5	Endrin Ketone	U	0.10	1.0	0.10	0.10	0.020
12789-03-6	Chlordane	U	0.50	1.0	0.50	0.50	0.15
877-09-8	Tetrachloro-m-Xylene		77%				
2051-24-3	Decachlorobiphenyl		54%				

FORM 2
WATER SEMIVOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

GC Column(1): RTX-CLPI ID: 0.53 (mm) GC Column(2): RTX-CLPII ID: 0.53 (mm)

	CLIENT SAMPLE ID	LAB SAMPLE ID	TCX1 REC#	TCX2 REC#	DCB1 REC#	DCB2 REC#	OTHR (1)	OTHR (2)	TOT OUT
01	WG1590-BLANK	WG1590-1	75	77	52	54			0
02	WG1590-LCS	WG1590-2	74	76	30*	31*			2
03	S1SW-2-0103	WT0246-11	62	65	72	71			0
04	WG1560-BLANK	WG1560-1	69	69	80	80			0
05	WG1560-LCS	WG1560-2	64	64	67	64			0
06	WG1560-LCSD	WG1560-3	78	78	66	67			0
07	S1MW-7-0103	WT0233-6	71	72	83	84			0
08	0103-DUP-01	WT0233-7	78	79	85	88			0
09									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									

ADVISORY QC LIMITS

S1 (TCX) = Tetrachloro-m-Xylene (30-123)
S2 (DCB) = Decachlorobiphenyl (36-140)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

FORM 8
FL-PRO ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code:

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

GC Column: ZB-1 ID: 0.53 (mm) Init. Calib. Date(s): 01/17/03 01/17/03

Instrument ID: GC12

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 18.34 S2 : 24.66

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01	ICAL	FL PRO 5 UG/	01/17/03	1201	18.34	24.65
02	ICAL	FL PRO 20 UG	01/17/03	1311	18.34	24.66
03	ICAL	FL PRO 50 UG	01/17/03	1422	18.34	24.65
04	ICAL	FL PRO 100UG	01/17/03	1532	18.34	24.65
05	ICAL	FL PRO 200UG	01/17/03	1643	18.34	24.66
06	INDSOURCE	FL PRO IND	01/17/03	1753	18.34	24.65
07	CV	FLPRO 50 UG/	02/19/03	1350	18.33	24.63
08	WG1582-BLANK	WG1582-1	02/19/03	1500	18.33	24.64
09	WG1582-LCS	WG1582-2	02/19/03	1722	18.33	24.64
10	WG1582-LCSD	WG1582-3	02/19/03	1831	18.33	24.64
11	FC-MW-06-010	WT0233-1	02/19/03	1942	18.33	24.64
12	FC-MW-05-010	WT0233-3	02/19/03	2203	18.33	24.64
13	CV	FLPRO 50 UG/	02/20/03	0133	18.33	24.63
14	CV	FLPRO 50 UG/	02/20/03	1626	18.34	24.64
15	FC-MW-20R-01	WT0233-2	02/20/03	1737	18.33	24.63
16	CV	FLPRO 50 UG/	02/20/03	2107	18.32	24.63
17						
18						
19						
20						

QC LIMITS

S1 = O-Terphenyl (+/- 0.37 MINUTES)
S2 = n-Triacontane-D62 (+/- 0.49 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 6
FL-PRO INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code:

Project NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GC12 Calibration Date(s): 01/17/03 01/17/03

Column: ZB-1 ID: 0.53 (mm) Calibration Time(s): 1201 1643

LAB FILE ID: RF5: CTA2027 RF20: CTA2028 RF50: CTA2029
RF100: CTA2030 RF200: CTA2031

COMPOUND	RF5	RF20	RF50	RF100	RF200	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2	MAX %RSD OR R^2
C-8	30443	111280	287150	546300	1055300	LINR	-1.6251	2e-004	0.99940	0.99000
C-10	28265	112320	291000	551110	1070000	LINR	-1.4123	2e-004	0.99943	0.99000
C-16	29995	112160	292230	551220	1074300	LINR	-1.4416	2e-004	0.99948	0.99000
FL-PRO peaks C8-C40	475570	1855000	4856000	9172000	2e+007	LINR	-19.110	2e-004	0.99960	0.99000
C-38	23315	99889	271200	510360	1012500	LINR	-0.5519	2.e-004	0.99962	0.99000
C-40	21542	96187	261750	500590	1003300	LINR	3e-002	2.e-004	0.99980	0.99000
C-32	27019	106780	282660	530760	1044300	LINR	-1.0800	2e-004	0.99955	0.99000
C-34	26442	108550	286650	537800	1065800	LINR	-0.8739	2e-004	0.99962	0.99000
O-Terphenyl	6717.00	6775.20	7016.00	7313.50	6707.30	AVRG		6905.81	3.765	40.000
n-Triacontane-D62	4540.10	4607.00	4664.40	4551.10	4527.40	AVRG		4578.02	1.247	40.000
C-12	37592	115180	294940	555130	1075400	LINR	-2.1298	2e-004	0.99940	0.99000
C-14	27978	111910	289900	549780	1071000	LINR	-1.2962	2e-004	0.99950	0.99000
C-18	28594	110380	290240	548490	1071100	LINR	-1.2458	2e-004	0.99951	0.99000
C-20	28924	110770	290060	547280	1069800	LINR	-1.2883	2e-004	0.99952	0.99000
C-22	28774	111630	291270	550460	1078200	LINR	-1.2129	2e-004	0.99957	0.99000
C-24	27991	109710	287570	542220	1064800	LINR	-1.1401	2e-004	0.99958	0.99000
C-26	27831	110560	289900	545930	1074100	LINR	-1.0918	2e-004	0.99959	0.99000
C-28	27418	109610	287230	539870	1065000	LINR	-1.0495	2e-004	0.99960	0.99000
C-30	28272	112760	280560	533460	1069400	LINR	-0.8100	2e-004	0.99983	0.99000
C-36	25171	105350	281740	531200	1050100	LINR	-0.7420	2e-004	0.99962	0.99000

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code:

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GC12 Calibration Date: 02/19/03 Time: 1350

Lab File ID: CTB2034 Init. Calib. Date(s): 01/17/03 01/17/03

Init. Calib. Times: 1201 1643

GC Column: ZB-1 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
C-24	56.039000	50.000000	6086.6000	0.01	12.08	20.00	LINR
C-8	52.292000	50.000000	5690.9000	0.01	4.58	20.00	LINR
C-10	53.803000	50.000000	5911.2000	0.01	7.61	20.00	LINR
C-12	54.779000	50.000000	6099.9000	0.01	9.56	20.00	LINR
C-14	55.244000	50.000000	6057.7000	0.01	10.49	20.00	LINR
C-16	55.688000	50.000000	6134.8000	0.01	11.38	20.00	LINR
C-18	55.720000	50.000000	6102.9000	0.01	11.44	20.00	LINR
C-28	55.448000	50.000000	6013.3000	0.01	10.90	20.00	LINR
C-20	55.961000	50.000000	6123.3000	0.01	11.92	20.00	LINR
C-22	55.640000	50.000000	6128.5000	0.01	11.28	20.00	LINR
C-26	55.778000	50.000000	6105.9000	0.01	11.56	20.00	LINR
C-30	55.988000	50.000000	6054.2000	0.01	11.98	20.00	LINR
C-36	51.590000	50.000000	5498.8000	0.01	3.18	20.00	LINR
FL-PRO peaks C8-C40	919.75000	850.00000	5854.0000	0.01	8.20	20.00	LINR
C-38	47.220000	50.000000	4842.3000	0.01	-5.56	20.00	LINR
C-40	51.586000	50.000000	5181.3000	0.01	3.17	20.00	LINR
C-32	54.224000	50.000000	5774.3000	0.01	8.45	20.00	LINR
C-34	52.747000	50.000000	5711.8000	0.01	5.49	20.00	LINR
O-Terphenyl	6905.8000	7355.4000	7355.4000	0.01	6.51	25.00	AVRG
n-Triacontane-D62	4578.0000	4827.4000	4827.4000	0.01	5.45	25.00	AVRG

FORM VII PEST

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code:

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GC12 Calibration Date: 02/20/03 Time: 0133

Lab File ID: CTB2044 Init. Calib. Date(s): 01/17/03 01/17/03

Init. Calib. Times: 1201 1643

GC Column: ZB-1 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
C-24	44.351000	50.000000	4842.4000	0.01	-11.30	20.00	LINR
C-8	41.642000	50.000000	4566.8000	0.01	-16.72	20.00	LINR
C-10	42.868000	50.000000	4740.5000	0.01	-14.26	20.00	LINR
C-12	44.205000	50.000000	4966.4000	0.01	-11.59	20.00	LINR
C-14	44.048000	50.000000	4858.2000	0.01	-11.90	20.00	LINR
C-16	44.180000	50.000000	4899.0000	0.01	-11.64	20.00	LINR
C-18	44.248000	50.000000	4873.8000	0.01	-11.50	20.00	LINR
C-28	44.570000	50.000000	4855.5000	0.01	-10.86	20.00	LINR
C-20	44.345000	50.000000	4880.9000	0.01	-11.31	20.00	LINR
C-22	44.172000	50.000000	4892.4000	0.01	-11.66	20.00	LINR
C-26	44.484000	50.000000	4893.3000	0.01	-11.03	20.00	LINR
C-30	44.965000	50.000000	4879.3000	0.01	-10.07	20.00	LINR
C-36	44.436000	50.000000	4747.1000	0.01	-11.13	20.00	LINR
FL-PRO peaks C8-C40	751.83000	850.00000	4803.0000	0.01	-11.55	20.00	LINR
C-38	44.796000	50.000000	4596.6000	0.01	-10.41	20.00	LINR
C-40	46.311000	50.000000	4651.2000	0.01	-7.38	20.00	LINR
C-32	44.277000	50.000000	4735.8000	0.01	-11.45	20.00	LINR
C-34	43.930000	50.000000	4772.6000	0.01	-12.14	20.00	LINR
O-Terphenyl	6905.8000	5882.6000	5882.6000	0.01	-14.82	25.00	AVRG
n-Triacontane-D62	4578.0000	3901.8000	3901.8000	0.01	-14.77	25.00	AVRG

FORM VII PEST

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code:

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GC12 Calibration Date: 02/20/03 Time: 1626

Lab File ID: CTB2048 Init. Calib. Date(s): 01/17/03 01/17/03

Init. Calib. Times: 1201 1643

GC Column: ZB-1 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
C-24	52.111000	50.000000	5668.4000	0.01	4.22	20.00	LINR
C-8	52.143000	50.000000	5675.2000	0.01	4.29	20.00	LINR
C-10	51.326000	50.000000	5645.9000	0.01	2.65	20.00	LINR
C-12	51.647000	50.000000	5764.1000	0.01	3.29	20.00	LINR
C-14	51.716000	50.000000	5679.7000	0.01	3.43	20.00	LINR
C-16	51.569000	50.000000	5692.5000	0.01	3.14	20.00	LINR
C-18	51.720000	50.000000	5674.3000	0.01	3.44	20.00	LINR
C-28	52.427000	50.000000	5691.7000	0.01	4.85	20.00	LINR
C-20	51.847000	50.000000	5683.3000	0.01	3.69	20.00	LINR
C-22	51.982000	50.000000	5734.1000	0.01	3.96	20.00	LINR
C-26	52.246000	50.000000	5726.6000	0.01	4.49	20.00	LINR
C-30	53.041000	50.000000	5740.1000	0.01	6.08	20.00	LINR
C-36	50.679000	50.000000	5403.1000	0.01	1.36	20.00	LINR
FL-PRO peaks C8-C40	876.80000	850.00000	5584.3000	0.01	3.15	20.00	LINR
C-38	49.992000	50.000000	5123.2000	0.01	-0.02	20.00	LINR
C-40	48.343000	50.000000	4855.3000	0.01	-3.31	20.00	LINR
C-32	52.261000	50.000000	5569.4000	0.01	4.52	20.00	LINR
C-34	51.754000	50.000000	5606.0000	0.01	3.51	20.00	LINR
O-Terphenyl	6905.8000	5907.1000	5907.1000	0.01	-14.46	25.00	AVRG
n-Triacontane-D62	4578.0000	4341.0000	4341.0000	0.01	-5.18	25.00	AVRG

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code:

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

Instrument ID: GC12 Calibration Date: 02/20/03 Time: 2107

Lab File ID: CTB2052 Init. Calib. Date(s): 01/17/03 01/17/03

Init. Calib. Times: 1201 1643

GC Column: ZB-1 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
C-24	53.165000	50.000000	5780.6000	0.01	6.33	20.00	LINR
C-8	53.146000	50.000000	5781.1000	0.01	6.29	20.00	LINR
C-10	52.423000	50.000000	5763.5000	0.01	4.85	20.00	LINR
C-12	52.861000	50.000000	5894.2000	0.01	5.72	20.00	LINR
C-14	53.159000	50.000000	5834.4000	0.01	6.32	20.00	LINR
C-16	52.987000	50.000000	5844.8000	0.01	5.97	20.00	LINR
C-18	53.158000	50.000000	5828.5000	0.01	6.32	20.00	LINR
C-28	53.373000	50.000000	5792.4000	0.01	6.75	20.00	LINR
C-20	53.092000	50.000000	5816.5000	0.01	6.18	20.00	LINR
C-22	52.999000	50.000000	5843.8000	0.01	6.00	20.00	LINR
C-26	53.273000	50.000000	5837.0000	0.01	6.55	20.00	LINR
C-30	53.857000	50.000000	5827.0000	0.01	7.71	20.00	LINR
C-36	51.609000	50.000000	5500.8000	0.01	3.22	20.00	LINR
FL-PRO peaks C8-C40	895.80000	850.00000	5702.5000	0.01	5.39	20.00	LINR
C-38	51.620000	50.000000	5288.2000	0.01	3.24	20.00	LINR
C-40	49.957000	50.000000	5017.5000	0.01	-0.09	20.00	LINR
C-32	52.822000	50.000000	5628.0000	0.01	5.64	20.00	LINR
C-34	52.295000	50.000000	5663.6000	0.01	4.59	20.00	LINR
O-Terphenyl	6905.8000	6073.0000	6073.0000	0.01	-12.06	25.00	AVRG
n-Triacontane-D62	4578.0000	4408.3000	4408.3000	0.01	-3.71	25.00	AVRG

FORM VII PEST

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 02/05/03
Received Date: 02/05/03
Extraction Date: 02/06/03
Analysis Date: 02/19/03
Report Date: 02/21/2003
Matrix: WATER
% Solids: NA

Lab ID: WG1582-1
Client ID: WG1582-Blank
SDG: CTO233-4
Extracted by: AB
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG1582
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	500	1.0	500	500	280
	n-Triacontane-D62		104%				
	O-Terphenyl		88%				

FORM 2
WATER FL-PRO SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code:

Project: NAF KEY WEST CTO233 SDG No.: CTO233-4

	CLIENT SAMPLE ID	LAB SAMPLE ID	S1 #	S2 OTP#	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	WG1582-BLANK	WG1582-1	104	88							0
02	WG1582-LCS	WG1582-2	106	87							0
03	WG1582-LCSD	WG1582-3	101	83							0
04	FC-MW-06-0103	WT0233-1	122	98							0
05	FC-MW-05-0103	WT0233-3	125	104							0
06	FC-MW-20R-0103	WT0233-2	142	112							0
07											
08											
09											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											

		QC LIMITS
S1	= n-Triacontane-D62	(42-193)
S2 (OTP)	= O-Terphenyl	(82-142)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: NAF KEY WEST CTO233
PO No:
Sample Date: 02/05/03
Received Date: 02/05/03
Extraction Date: 02/06/03
Analysis Date: 02/19/03
Report Date: 02/21/2003
Matrix: WATER

Lab ID: WG1582-2 & WG1582-3
Client ID: WG1582-LCS & WG1582-LCSD
SDG: CTO233-4
Extracted by: AB
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG1582
Units: ug/L

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
Petroleum Range Organics	1700	1700	NA	1600	1500	94	88	6	30	55-118

FORM III SV-1

CTB2037.d & CTB2038.d

APPENDIX B

WATER SAMPLING LOGS

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page___ of___

Project Site Name: NAF KEY WEST - FLYING CLUB
Project No.: 4087

Sample ID No.: FC-MW-05-0103
Sample Location: FC-MW 20
Sampled By: GTB
C.O.C. No.:

[] Domestic Well Data
[x] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 1/31/02	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Time: 1019								
Method: Peristaltic	clear	7.34	.554	25.2	136	0.24	0.02	

PURGE DATA:

Date: 1/31/02	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other DTW	Time
Method: Peristaltic	purge one casing volume prior to taking readings								
Monitor Reading (ppm):	1000 ml	7.45	.557	25.0	134	0.36	0.02	4.75	9:45
Well Casing Diameter & Material	2000 ml	7.40	.556	25.3	120	0.73	0.02	4.75	9:50
Type: 2" PVC	3000 ml	7.36	.555	25.4	136	0.15	0.02		9:55
Total Well Depth (TD): 11.62	4000 ml	7.41	.554	25.4	54	0.04	0.02		10:00
Static Water Level (WL): 4.65	5000 ml	7.42	.554	25.3	128	0.14	0.02		10:05
One Casing Volume(gal/L): 4.3	6000	7.34	.554	25.2	136	0.24	0.02		10:10
Start Purge (hrs): 9:35									
End Purge (hrs): 10:10									
Total Purge Time (min): 45									
Total Vol. Purged (gal/L): 11 liters									

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PAH	—	2/1 liter amber	
TRPH	HCl	2/1 liter amber	
VOC	HCl	3/40 ml vial	
EDB	HCl	2/40 ml vial	
LEAD	HNO_3	1/125 ml poly.	

OBSERVATIONS / NOTES:

Circle if Applicable:
MS/MSD | Duplicate ID No.:

Signature(s): Gary Blazejczyk

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NAF KEY WEST - FLAMINGO CLUB
Project No.: 4087

Sample ID No.: FC-MW-06-0103
Sample Location: FC-MW-06
Sampled By: GB
C.O.C. No.:

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Date: 1/31/02								
Time: 8:45								
Method: Peristaltic	clear	7.57	.489	23.6	533	2.28	0.02	

PURGE DATA:

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other DTW
Date: 1/31/02								Time
Method: Peristaltic pump	purge	5400 ml (one casing volume initially)						4.09
Monitor Reading (ppm):	10000 ml	7.26	.501	23.1	2999	2.10	0.02	4.03 8:10
Well Casing Diameter & Material	10000 ml	7.51	.494	23.4	916	2.06	0.02	4.03 8:15
Type: PVC 2"	10000 ml	7.54	.493	23.5	788	2.03	0.02	8:20
Total Well Depth (TD): 12.60	1000	7.60	.490	23.5	492	2.24	0.02	8:25
Static Water Level (WL): 3.70	1000	7.65	.498	23.4	458	3.17	0.02	8:30
One Casing Volume(gal/L): 5.4	1000	7.57	.490	23.6	490	2.15	0.02	8:35
Start Purge (hrs): 7:55	1000	7.57	.499	23.6	533	2.28	0.02	8:45
End Purge (hrs): 8:45								
Total Purge Time (min): 50 ml								
Total Vol. Purged (gal/L): ≈ 12L								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PAH	-	2/1 liter Amber	✓
TRPH	HCl	2/1 liter Amber	✓
VOA	HCl	3/40 ml	✓
LEAD	HNO_3	1/125 ml poly	✓
EDB	HCl	2/40 ml	✓

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s): Gary Bragonier

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NAF Key West Flying Club
Project No.: CTO 207

Sample ID No.: FC-MW-20-0103
Sample Location: FC-MW-20
Sampled By: EM
C.O.C. No.:

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 1/31/03	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 0857	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	
Method: peristaltic	cloudy	7.29	0.358	24.9	79	0.03	0.01	

PURGE DATA:

Date: 1/31/03	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other	
Method: peristaltic	0.5 gal	7.20	0.31	25.1	31	0.53	0.01	cloudy	0814
Monitor Reading (ppm):	1.0	7.28	0.428	25.1	42	0.19	0.01		0818
Well Casing Diameter & Material	1.5 gal	7.30	0.395	25.0	96	0.12	0.01		0824
Type: 2" PVC	2.0	7.24	0.379	25.0	233	0.29	0.01		0829
Total Well Depth (TD): 14.67	2.5	7.17	0.367	24.9	113	0.19	0.01		0834
Static Water Level (WL): 4.03	3.5	7.28	0.363	24.9	112	0.05	0.01		0839
One Casing Volume(gal/L): 1.8	4.0	7.27	0.359	24.9	83	0.05	0.01		0846
Start Purge (hrs): 0805	4.5	7.26	0.359	24.9	82	0.03	0.01		0852
End Purge (hrs): 0856	4.8	7.29	0.358	24.9	79	0.03	0.01		0856
Total Purge Time (min): 51									
Total Vol. Purged (gal/L): 4.8	tub would not go down - stabilized then sampled								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TRPH	HCl	2 x 1L Amber	
PAHs	—	2 x 1L Amber	
PPL VOCs	HCl	3 x 40mL	
EDB	HCl	2 x 40mL	
Lead	HNO_3	1 x 125 HDPE	

OBSERVATIONS / NOTES:

casing fully submerged - purged until water level stable ~ 4.63'
- purged 1 volume of pump before taking measurements
~ 17' x 1/4" tubing ~ 0.04 gal — 3x pump vol = 0.13 gal

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

EM McRae